

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: February 25, 2004, 01:27:07 ; Search time 17 Seconds
(without alignments)

2095.407 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 115

Sequence: 1 atgagcacattcttaaac.....aaatgaccccgccgagga 345

Scoring table:

OLIGO
Xgapop 60.0 , Xgapext 60.0
Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 389414 seqs, 51625971 residues

Word size: 1

Total number of hits satisfying chosen parameters: 663654

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Command line parameters:

-MODEL=frame+ n2p.model -DEV=xlp
-Q=/cgn2_1/USPTO spool p/US09873224/runat 24022004 132746 10614/app query.fasta_1.519
-DB=Issued Patents AA -QFMT=fastan -SUFFIX=rai -MINMATCH=0.1 -LOOPCL=0
-LOOPTXT=0 -UNITS=Bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR_SCORE=quality -THR_MIN=1 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HRAFSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09873224 @cgn2_1 1 27 @runat 24022004 132746 10614 -NCPU=6 -ICPU=3
-NO_WMAP -LARGQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6
-FGAEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

Issued Patents AA:*

1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PTCUS.COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	98	85.2	115	3	US-08-836-075A-50
2	83	72.2	100	4	US-08-635-886C-233
3	83	72.2	100	4	US-08-974-690C-233
4	44	38.3	124	1	US-08-244-116B-15
5	44	38.3	191	2	US-08-290-665A-187
6	44	38.3	191	2	US-08-290-665A-188
7	44	38.3	191	2	US-08-290-665A-189
8	44	38.3	191	2	US-08-290-665A-190
9	44	38.3	191	2	US-08-290-665A-191
10	44	38.3	191	2	US-08-290-665A-192
11	44	38.3	191	2	US-08-290-665A-193
12	44	38.3	191	2	US-08-290-665A-195

13	44	38.3	191	2	US-08-290-665A-196
14	44	38.3	191	2	US-08-290-665A-197
15	44	38.3	191	5	PCT-US95-10398-187
16	44	38.3	191	5	PCT-US95-10398-188
17	44	38.3	191	5	PCT-US95-10398-189
18	44	38.3	191	5	PCT-US95-10398-190
19	44	38.3	191	5	PCT-US95-10398-191
20	44	38.3	191	5	PCT-US95-10398-192
21	44	38.3	191	5	PCT-US95-10398-193
22	44	38.3	191	5	PCT-US95-10398-195
23	44	38.3	191	5	PCT-US95-10398-196
24	44	38.3	191	5	PCT-US95-10398-197
25	44	38.3	319	4	US-08-635-886C-217
26	44	38.3	319	4	US-08-635-886C-219
27	44	38.3	319	4	US-08-974-690C-217
28	44	38.3	319	4	US-08-974-690C-219
29	37	32.2	191	2	US-08-290-665A-194
30	37	32.2	191	5	PCT-US95-10398-194
31	34	29.6	42	3	US-08-380-160-10
32	34	29.6	46	1	US-08-262-037-27
33	34	29.6	56	1	US-08-262-037-28
34	34	29.6	61	1	US-08-262-037-29
35	34	29.6	89	1	US-07-681-703B-24
36	34	29.6	89	2	US-08-407-410B-24
37	34	29.6	89	2	US-08-485-500-24
38	34	29.6	89	5	PCT-US91-02370-24
39	34	29.6	119	1	US-07-681-703B-18
40	34	29.6	119	2	US-08-407-410B-18
41	34	29.6	119	2	US-08-485-500-18
42	34	29.6	119	5	PCT-US91-02370-18
43	34	29.6	120	4	US-08-850-328-2
44	34	29.6	144	3	US-08-444-818-103
45	34	29.6	150	1	US-07-681-703B-16

ALIGNMENTS

RESULT 1
US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; TITLE OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836.075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:

us-09-873-224a-147.ra1

Fri Feb 27 14:10:23 2004

NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 115 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-836-075A-50

Alignment Scores: 115
Pred. No.: 98
Score: 98.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 85.22%
DB: 3

US-09-873-224A-147 (1-345) x US-08-836-075A-50 (1-115)

QY 51 CGGCCACAGACGTTAACTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTA 110
DB 18 ArgProGlnAspVallyspheProGlyGlyGlnleValGlyValTyValleu 37
QY 111 CCAGCGAGGGCCCCCAGTGGGTGTGGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGAA 170
DB 38 ProArgArgGlyProGlnleuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CCTCGCAGTAGCGCCACCACTCCAGCGCGGCCCAACCGAGGCGAGTCTCTGGGCT 230
DB 58 ProArgSerArgGlnProleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGTACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTGGCTC 290
DB 78 GlnProGlyTyProTrpProleuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CNGTCCCGCGCGGTCTCGCCGTCGTGGGCGCCCAATAGACCCCGGCGAGG 344
DB 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

US-08-635-886C-233
Sequence 233, Application US/08635886C
Patent No. 6555114
GENERAL INFORMATION:
APPLICANT: LEROUX-ROELS, Geert
APPLICANT: DELEYS, Robert
APPLICANT: MAERTENS, Geert
TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
TITLE OF INVENTION: VIRUS
FILE REFERENCE: 2752-18
CURRENT APPLICATION NUMBER: US/08/635,886C
CURRENT FILING DATE: 1996-04-25
PRIOR APPLICATION NUMBER: PCT/EP94/03555
PRIOR FILING DATE: 1994-10-28
PRIOR APPLICATION NUMBER: EP 93402718.6
PRIOR FILING DATE: 1993-11-04
NUMBER OF SEQ ID NOS: 286
SOFTWARE: Patent in version 3.1
SEQ ID NO 233
LENGTH: 100
TYPE: PRT
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (17)..(17)
OTHER INFORMATION: Xaa is any amino acid
US-08-635-886C-233

Alignment Scores: 100
Pred. No.: 83
Score: 83.00
Length: 100
Matches: 83

Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 72.17%
DB: 4
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0

US-09-873-224A-147 (1-345) x US-08-635-886C-233 (1-100)

QY 51 CGGCCACAGACGTTAACTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTA 110
DB 18 ArgProGlnAspVallyspheProGlyGlyGlnleValGlyValTyValleu 37
QY 111 CCAGCGAGGGCCCCCAGTGGGTGTGGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGAA 170
DB 38 ProArgArgGlyProGlnleuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CCTCGCAGTAGCGCCACCACTCCAGCGCGGCCCAACCGAGGCGAGTCTCTGGGCT 230
DB 58 ProArgSerArgGlnProleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGTACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGTGGCTC 290
DB 78 GlnProGlyTyProTrpProleuTyGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGC 299
DB 98 LeuSerPro 100

US-08-974-690C-233
Sequence 233, Application US/08974690C
Patent No. 6613333
GENERAL INFORMATION:
APPLICANT: LEROUX-ROELS, Geert
APPLICANT: DELEYS, Robert
APPLICANT: MAERTENS, Geert
TITLE OF INVENTION: IMMUNODOMINANT HUMAN T CELL EPITOPES OF HEPATITIS C
TITLE OF INVENTION: VIRUS
FILE REFERENCE: 2551-94
CURRENT APPLICATION NUMBER: US/08/974,690C
CURRENT FILING DATE: 1997-11-19
PRIOR APPLICATION NUMBER: PCT/EP94/03555
PRIOR FILING DATE: 1994-10-28
PRIOR APPLICATION NUMBER: EP 93402718.6
PRIOR FILING DATE: 1993-11-04
NUMBER OF SEQ ID NOS: 286
SOFTWARE: Patent in version 3.1
SEQ ID NO 233
LENGTH: 100
TYPE: PRT
ORGANISM: hepatitis C virus
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (17)..(17)
OTHER INFORMATION: Xaa is any amino acid
US-08-974-690C-233

Alignment Scores: 100
Pred. No.: 83
Score: 83.00
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 72.17%
DB: 4
Conservative: 0
Mismatch: 0
Indels: 0
Gaps: 0

US-09-873-224A-147 (1-345) x US-08-974-690C-233 (1-100)

QY 51 CGGCCACAGACGTTAACTCCAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTGCTA 110
DB 18 ArgProGlnAspVallyspheProGlyGlyGlnleValGlyValTyValleu 37
QY 111 CCAGCGAGGGCCCCCAGTGGGTGTGGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGAA 170
DB 38 ProArgArgGlyProGlnleuGlyValArgAlaValArgLysThrSerGluArgSerGln 57

QY 171 CCTGCGAGTGGCGCCACCCATCCCGAGGGCGGCCGAAACGAGGGCAGGTCTCTGGCT 230
Db 58 ProArgSerArgGlnProIleProAlaArgArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGTACCCCTTGGCCCTATATGGAATGAGGGCTGGGGTGGCGAGGGTGGCTC 290
Db 78 GlnProGlyTyrrProTrpProLeuTyrrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGC 299
Db 98 LeuSerPro 100

RESULT 4

US-08-244-116B-15
; Sequence 15, Application US/08244116B
; Patent No. 5763159
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. 5763159th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION: 435

PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus
US-08-244-116B-15

Alignment Scores:
Pred. No.: 7.6e-33 Length: 124
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 1 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-244-116B-15 (1-124)

QY 213 GAGGGCAGGTCTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTGC 272

Db 68 GluGlyArgSerTrpAlaGlnProGlyTyrrProTrpProLeuTyrrGlyAsnGluGlyCys 87
QY 273 GGGTGGGCGAGGTGGCTCTCTCCCGCGCGGCTCTCCCGCGCCCAATGAC 332
Db 88 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 107
QY 333 CCGCGGGCGAGG 344
Db 108 ProArgArgArg 111

RESULT 5

US-08-290-665A-187
; Sequence 187, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homoeapiens
; INDIVIDUAL ISOLATE: HK10
US-08-290-665A-187

Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-187 (1-191)

QY 213 GAGGGCAGGTCTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrrProTrpProLeuTyrrGlyAsnGluGlyCys 91

QY 273 GGGTGGGAGGGTGGCTCTGTCCCGCGGGCTCTCGCCCGCTGTGGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCCCGGCGCAGG 344
 Db 112 ProArgArgArg 115

RESULT 6
 US-08-290-665A-188
 ; Sequence 188, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BURKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 188:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:
 ; ORGANISM: homospapiens
 ; INDIVIDUAL ISOLATE: S52
 ; US-08-290-665A-188

Alignment Scores:
 Pred. No.: 7,13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservatives: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-188 (1-191)
 QY 213 GAGGCGAGGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProLeuTyrGlyAsnGluGlyCys 91
 QY 273 GGGTGGGAGGGTGGCTCTGTCCCGCGGGCTCTCGCCCGCTGTGGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCCCGGCGCAGG 344
 Db 112 ProArgArgArg 115

RESULT 7
 US-08-290-665A-189
 ; Sequence 189, Application US/08290665A
 ; Patent No. 5882852
 ; GENERAL INFORMATION:
 ; APPLICANT: BURKH, J., MILLER, R.H. AND
 ; APPLICANT: PURCELL, R.H.
 ; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 ; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 ; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 ; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 ; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 ; NUMBER OF SEQUENCES: 263
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN & FINNEGAN
 ; STREET: 345 PARK AVENUE
 ; CITY: NEW YORK
 ; STATE: NEW YORK
 ; COUNTRY: USA
 ; ZIP: 10154
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY DISK
 ; COMPUTER: IBM PC COMPATIBLE
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: WORDPERFECT 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/290,665A
 ; FILING DATE: 15-AUG-1994
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: RICHARD W. BORK
 ; REGISTRATION NUMBER: 36,459
 ; REFERENCE/DOCKET NUMBER: 2026-4116
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 758-4800
 ; TELEFAX: (212) 751-6849
 ; TELEX: 421792
 ; INFORMATION FOR SEQ ID NO: 189:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 191 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: unknown
 ; TOPOLOGY: unknown
 ; ORIGINAL SOURCE:
 ; ORGANISM: homospapiens
 ; INDIVIDUAL ISOLATE: S2
 ; US-08-290-665A-189

Alignment Scores:
 Pred. No.: 7,13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservatives: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-189 (1-191)
 QY 213 GAGGCGAGGTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTrpProLeuTyrGlyAsnGluGlyCys 91
 QY 273 GGGTGGGAGGGTGGCTCTGTCCCGCGGGCTCTCGCCCGCTGTGGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCCCGGCGCAGG 344

Db 112 ProArgArgArg 115

RESULT 8
US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6840
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
US-08-290-665A-190

Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)

QY 213 GAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTyrProLeuTyGlyAsnGluGlyCys 91
QY 273 GGGTGGCGAGGGTGGTCTCTGTCGCCCGCGGCTCTCGCCCGTCTGCGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 9

US-08-290-665A-191
; Sequence 191, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6840
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 191:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z4
US-08-290-665A-191

Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-191 (1-191)

QY 213 GAGGGCAGGTCTCTGGGCTCAGCCCGGTACCCCTTGCCCTATATGGGAATGAGGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTyrProLeuTyGlyAsnGluGlyCys 91
QY 273 GGGTGGCGAGGGTGGTCTCTGTCGCCCGCGGCTCTCGCCCGTCTGCGGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCCGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 10
US-08-290-665A-192
; Sequence 192, Application US/08290665A
; Patent No. 5882852

GENERAL INFORMATION:
 APPLICANT: BUKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792

INFORMATION FOR SEQ ID NO: 192:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: Z8
 US-08-290-665A-192

Alignment Scores:
 Pred. No.: 7.13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)

QY 213 GAGGGCAGGTCTGGGCTCAGCCCGGTACCCCTTGCCCTATATGGAATGAGGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
 QY 273 GGGTGGCGAGGTGGCTCTGTCGCCCGCGGGCTCTCGCCGCTGGTGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCCCAGCGCAGG 344
 Db 112 ProArgArgArg 115

RESULT 11
 US-08-290-665A-193
 Sequence 193, Application US/08290665A
 Patent No. 5882852
 GENERAL INFORMATION:
 APPLICANT: BUKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.

TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
 TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
 TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
 NUMBER OF SEQUENCES: 263
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORGAN & FINNEGAN
 STREET: 345 PARK AVENUE
 CITY: NEW YORK
 STATE: NEW YORK
 COUNTRY: USA
 ZIP: 10154

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY DISK
 COMPUTER: IBM PC COMPATIBLE
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WORDPERFECT 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/290,665A
 FILING DATE: 15-AUG-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792

INFORMATION FOR SEQ ID NO: 193:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 191 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 ORIGINAL SOURCE:
 ORGANISM: homosapiens
 INDIVIDUAL ISOLATE: Z1
 US-08-290-665A-193

Alignment Scores:
 Pred. No.: 7.13e-33 Length: 191
 Score: 44.00 Matches: 44
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 38.26% Indels: 0
 DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)

QY 213 GAGGGCAGGTCTGGGCTCAGCCCGGTACCCCTTGCCCTATATGGAATGAGGGCTGC 272
 Db 72 GluGlyArgSerTrpAlaGlnProGlyTyProTrpProLeuTyGlyAsnGluGlyCys 91
 QY 273 GGGTGGCGAGGTGGCTCTGTCGCCCGCGGGCTCTCGCCGCTGGTGGGCCCAATGAC 332
 Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
 QY 333 CCCCAGCGCAGG 344
 Db 112 ProArgArgArg 115

RESULT 12
 US-08-290-665A-195
 Sequence 195, Application US/08290665A
 Patent No. 5882852
 GENERAL INFORMATION:
 APPLICANT: BUKH, J., MILLER, R.H. AND
 APPLICANT: PURCELL, R.H.
 TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
 TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
 TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS


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; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6840
; TELEFAX: (212) 751-6849
;
; INFORMATION FOR SEQ ID NO: 197:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK13
;
; US-08-290-665A-197

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Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 2 Gaps: 0

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US-09-873-224A-147 (1-345) x US-08-290-665A-197 (1-191)
QY 213 GAGGCGAGTCTCTGGGCTCAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGTGGGCGAGGTGGTCTCTGTCTCCCGCGGCTCTCGCCCGTCTGCGGCGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCCGCGCAGG 344
Db 112 ProArgArgArg 115

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RESULT 15
PCT-US95-10398-187
; Sequence 187, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

```

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6840
; TELEFAX: (212) 751-6849
;
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
;
; PCT-US95-10398-187

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Alignment Scores:
Pred. No.: 7.13e-33 Length: 191
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 5 Gaps: 0

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US-09-873-224A-147 (1-345) x PCT-US95-10398-187 (1-191)
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Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91
QY 273 GGTGGGCGAGGTGGTCTCTGTCTCCCGCGGCTCTCGCCCGTCTGCGGCGCCCAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111
QY 333 CCCCCGCGCAGG 344
Db 112 ProArgArgArg 115

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Search completed: February 25, 2004, 01:36:27
Job time : 18 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: February 25, 2004, 01:34:23 ; Search time 33.5 Seconds

(without alignments)
4349.127 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 115

Sequence: 1 atgagcacattcttaaac.....aaatgaccccggcgcagga 345

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Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
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Searched: 809742 seqs, 211153259 residues

Word size: 1

Total number of hits satisfying chosen parameters: 1535912

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Command line parameters:

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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications AA:*

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18: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description

1	98	85.2	115	9	US-09-851-138-50	Sequence 50, Appl
2	98	85.2	115	10	US-09-899-046-148	Sequence 148, App
3	98	85.2	115	10	US-09-878-281-148	Sequence 148, App
4	44	38.3	124	14	US-10-396-964-15	Sequence 15, Appl
5	44	38.3	166	10	US-09-899-046-164	Sequence 164, App
6	44	38.3	166	10	US-09-878-281-164	Sequence 164, App
7	38	33.0	130	14	US-10-268-569-19	Sequence 19, Appl
8	38	33.0	161	14	US-10-230-381-5	Sequence 5, Appl
9	38	33.0	191	14	US-10-230-381-53	Sequence 53, Appl
10	38	33.0	191	14	US-10-230-381-54	Sequence 54, Appl
11	38	33.0	191	14	US-10-230-381-55	Sequence 55, Appl
12	38	33.0	193	14	US-10-230-381-50	Sequence 50, Appl
13	38	33.0	193	14	US-10-230-381-51	Sequence 51, Appl
14	38	33.0	193	14	US-10-230-381-52	Sequence 52, Appl
15	38	33.0	209	14	US-10-230-381-3	Sequence 3, Appl
16	38	33.0	209	14	US-10-230-381-7	Sequence 7, Appl
17	38	33.0	373	14	US-10-230-381-11	Sequence 11, Appl
18	38	33.0	373	14	US-10-230-381-13	Sequence 13, Appl
19	38	33.0	373	14	US-10-230-381-15	Sequence 15, Appl
20	36	31.3	166	10	US-09-899-046-194	Sequence 194, App
21	36	31.3	166	10	US-09-878-281-194	Sequence 194, App
22	34	29.6	113	9	US-09-921-397-78	Sequence 78, Appl
23	34	29.6	122	14	US-10-098-857B-1	Sequence 1, Appl
24	34	29.6	126	10	US-09-899-046-166	Sequence 166, App
25	34	29.6	126	10	US-09-878-281-166	Sequence 166, App
26	34	29.6	151	14	US-10-292-129-14	Sequence 14, Appl
27	34	29.6	182	9	US-09-929-955-2	Sequence 2, Appl
28	34	29.6	182	13	US-10-104-966-2	Sequence 2, Appl
29	34	29.6	190	14	US-10-268-562-1	Sequence 1, Appl
30	34	29.6	235	15	US-10-365-620-58	Sequence 58, Appl
31	34	29.6	249	15	US-10-365-620-54	Sequence 54, Appl
32	34	29.6	424	14	US-10-173-480-28	Sequence 28, Appl
33	34	29.6	459	15	US-10-365-620-60	Sequence 60, Appl
34	34	29.6	473	15	US-10-365-620-56	Sequence 56, Appl
35	34	29.6	2894	9	US-09-941-611-23	Sequence 23, Appl
36	34	29.6	2894	14	US-10-044-995-23	Sequence 23, Appl
37	34	29.6	3011	9	US-09-742-659-4	Sequence 4, Appl
38	34	29.6	3011	9	US-09-916-359-2	Sequence 2, Appl
39	34	29.6	3011	9	US-09-238-076-20	Sequence 20, Appl
40	34	29.6	3011	9	US-09-952-572-9	Sequence 9, Appl
41	34	29.6	3011	9	US-09-929-955-1	Sequence 1, Appl
42	34	29.6	3011	9	US-09-747-419-20	Sequence 20, Appl
43	34	29.6	3011	10	US-09-891-894-3	Sequence 3, Appl
44	34	29.6	3011	10	US-09-995-937-20	Sequence 20, Appl
45	34	29.6	3011	10	US-09-917-563-20	Sequence 20, Appl

ALIGNMENTS

RESULT 1

US-09-851-138-50
Sequence 50, Application US/09851138
Publication No. US20020183508A1

GENERAL INFORMATION:

APPLICANT: MAERTENS, GEERT

STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50
Alignment Scores:
Pred. No.: 5,71e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 9 Gaps: 0
US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)
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Db 18 ArgProGlnAspValIysPheProGlyGlyGlnIleValGlyValIyrValIeu 37
QY 111 CCACGAGGGCCCCAGTTCGGTGTGCGTGCAGTGCAGCAAGACTTCGAGCGGTGCGAA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTTGCGAGTAGCGCCCAACCCATCCACAGGCGCGCCGACAGGCGAGGTCTCTGGGCT 230
Db 58 ProArgSerArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGCTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGGCGAGGTGGCTC 290
Db 78 GlnProGlyTyrrProTrpProLeuTyrrGlyAsnGluGlyCyAGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGCTCTCGCCGCTCGCGGCGCCCAATGACCCCGCGCGAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
RESULT 2
US-09-899-046-148
; Sequence 148, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION NUMBER: 08/362,455
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-148
Alignment Scores:
Pred. No.: 5,71e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 10 Gaps: 0
```

```
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148
Alignment Scores:
Pred. No.: 5,71e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 10 Gaps: 0
US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)
QY 51 CGGCCACAGGACGTTAAAGTTCACAGCGCGCTCAGATCGTTGGTGGAGTTACGTGCTA 110
Db 18 ArgProGlnAspValIysPheProGlyGlyGlnIleValGlyValIyrValIeu 37
QY 111 CCACGAGGGCCCCAGTTCGGTGTGCGTGCAGTGCAGCAAGACTTCGAGCGGTGCGAA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CTTGCGAGTAGCGCCCAACCCATCCACAGGCGCGCCGACAGGCGAGGTCTCTGGGCT 230
Db 58 ProArgSerArgGlnProIleProArgAlaArgThrGluGlyArgSerTrpAla 77
QY 231 CAGCCCGGCTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGGCGAGGTGGCTC 290
Db 78 GlnProGlyTyrrProTrpProLeuTyrrGlyAsnGluGlyCyAGlyTrpAlaGlyTrpLeu 97
QY 291 CTGTCCCGCGCGCTCTCGCCGCTCGCGGCGCCCAATGACCCCGCGCGAGG 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
RESULT 3
US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION NUMBER: 08/362,455
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-148
Alignment Scores:
Pred. No.: 5,71e-82 Length: 115
Score: 98.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 85.22% Indels: 0
DB: 10 Gaps: 0
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US-09-873-224A-147 (1-345) x US-09-878-281-148 (1-115)

QY 51 CGGCACAGGACGTTAAGTTCCTCCAGGCGCGGTGAGATCGTGTGGAGTTACGTGCTA 110
Db 18 ArgProGlnAepVallysPheProGlyGlyGlnileValGlyGlyValtyrValleu 37
QY 111 CCAGCAGGCGCCCGCCAGTTCGGTGCAGTGCAGTGCAGACTTCCAGCGGTGCGAA 170
Db 38 ProArgArgGlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGln 57
QY 171 CCTCGAGTAGGCGCCCAACCCATCCCGAGGCGCGCCGACCCAGGCGAGGTCTCTGGGCT 230
Db 58 ProArgSerArgArgGlnProIleProArgAlaArgThrGluGlyArgSerTIPala 77
QY 231 CAGCCCGGTRACCTTGGCCCTATATGGGAATAGGCTCGGGTGGCGAGGTGGCTC 290
Db 78 GlnProGlyTyPProTIPProLeuTyrglyAsnGluGlyCysGlyTIPAlaGlyTIPleu 97
QY 291 CTGTCCCGCGCGCTCTCGCCCTCGTGGGGGCCCAATGACCCCGCGCGCAGG 344
Db 98 LeuSerProArgGlySerArgProSerTIPGlyProAsnAepProArgArgArg 115

RESULT 4
US-10-396-964-15
; Sequence 15, Application US/10396964
; Publication No. US20030198946A1
; GENERAL INFORMATION:
; APPLICANT: Simmonds, Peter
; APPLICANT: Chan, Shiu-Wan
; APPLICANT: Yap, Peng L.
; TITLE OF INVENTION: Hepatitis-C Virus Testing
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Bell, Seltzer, Park & Gibson, P.A.
; STREET: 1211 East Morehead Street
; CITY: Charlotte
; STATE: No. US20030198946A1th Carolina
; COUNTRY: United States
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0. Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/396,964
; FILING DATE: 23-MARCH-2003
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/244,116B
; FILING DATE: 15-JUL-1994
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB92/02143
; FILING DATE: 20-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 1749-125
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 704-377-1561
; TELEFAX: 704-334-2014
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 124 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: yes
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: Hepatitis-C virus

US-10-396-964-15

Alignment Scores:
Pred. No.: 4.96e-32 Length: 124
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-396-964-15 (1-124)

QY 213 GAGGGCAGGTCTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
Db 68 GluGlyArgSerTIPalaGlnProGlyTyPProTIPProLeuTyrglyAsnGluGlyCys 87
QY 273 GGGTGGCGAGGGTGGTCTCTGTCCTCCCGCGGCTCTCGCCGCTGTGGGGCCCAATGAC 332
Db 88 GlyTIPalaGlyTIPLeuLeuSerProArgGlySerArgProSerTIPGlyProAsnAep 107
QY 333 CCGCGGCGCAGG 344
Db 108 ProArgArgArg 111

RESULT 5
US-09-899-046-164
; Sequence 164, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-899-046-164

Alignment Scores:
Pred. No.: 4.76e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-164 (1-166)

QY 213 GAGGGCAGGTCTCTGGGCTCAGCCGGGTACCTTGGCCCTATATGGGAATGAGGGTGC 272
Db 72 GluGlyArgSerTIPalaGlnProGlyTyPProTIPProLeuTyrglyAsnGluGlyCys 91
QY 273 GGGTGGCGAGGGTGGTCTCTGTCCTCCCGCGGCTCTCGCCGCTGTGGGGCCCAATGAC 332
Db 92 GlyTIPalaGlyTIPLeuLeuSerProArgGlySerArgProSerTIPGlyProAsnAep 111
QY 333 CCGCGGCGCAGG 344
Db 112 ProArgArgArg 115

RESULT 6
US-09-878-281-164
; Sequence 164, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 164:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 166 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-878-281-164

Alignment Scores:
Pred. No.: 4.76e-32 Length: 166
Score: 44.00 Matches: 44
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 38.26% Indels: 0
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281-164 (1-166)

QY 213 GAGGCGAGGTCTGGGCTACGCGGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

QY 273 GGTGGGCGAGGTGGCTCTGCTCCGCGGGCTCTGCGCGGCTCTGCGGCGCCCAAAATGAC 332
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyProAsnAsp 111

QY 333 CCGCGCGCGAGG 344
Db 112 ProArgArgArg 115

RESULT 7
US-10-268-569-19
; Sequence 19, Application US/10268569
; Publication No. US20030152965A1
; GENERAL INFORMATION:
; APPLICANT: Ortho-Clinical Diagnostics, Inc.
; TITLE OF INVENTION: HCV Core Protein Sequences
; FILE REFERENCE: CDS-0288
; CURRENT APPLICATION NUMBER: US/10/268,569
; CURRENT FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/347,303
; PRIOR FILING DATE: 2001-11-11
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 19
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-268-569-19

Alignment Scores:
Pred. No.: 1.74e-26 Length: 130

Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)

QY 213 GAGGCGAGGTCTGGGCTACGCGGGTACCTTGGCCCTATATGGGAATGAGGCTGC 272
Db 72 GluGlyArgSerTrpAlaGlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCys 91

QY 273 GGTGGGCGAGGTGGCTCTGCTCCGCGGGCTCTGCGCGGCTCTGCGGCGCCCA 326
Db 92 GlyTrpAlaGlyTrpLeuSerProArgGlySerArgProSerTrpGlyPro 109

RESULT 8
US-10-230-381-5
; Sequence 5, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 5
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-230-381-5

Alignment Scores:
Pred. No.: 1.69e-26 Length: 161
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-5 (1-161)

QY 231 CAGCCGCGGTACCTTGGCCCTATATGGGAATGAGGCTGCGGCTGCGGCGAGGCTGC 230
Db 78 GlnProGlyTyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97

QY 291 CTGTCCCGCGCGGCTCTGCGCGGCTCTGCGGCTCTGCGGCGCCCAAAATGAC 344
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 9
US-10-230-381-53
; Sequence 53, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 53
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-53

Alignment Scores:

Pred. No.: 1.65e-26 Length: 191
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-53 (1-191)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTC 290
|||
Db 78 GlnProGlyTyProTyrProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
|||
QY 291 CTGTCCCGCGCGGCTCTCGCCGCTGCGGCCCAATGACCCCGGCGCAGG 344
|||
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
|||

RESULT 10

US-10-230-381-54
; Sequence 54, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 54
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-54

Alignment Scores:
Pred. No.: 1.65e-26 Length: 191
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-54 (1-191)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTC 290
|||
Db 78 GlnProGlyTyProTyrProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
|||
QY 291 CTGTCCCGCGCGGCTCTCGCCGCTGCGGCCCAATGACCCCGGCGCAGG 344
|||
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
|||

RESULT 11

US-10-230-381-55
; Sequence 55, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55
; LENGTH: 191
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-55

Alignment Scores:
Pred. No.: 1.65e-26 Length: 191
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-55 (1-191)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTC 290
|||
Db 78 GlnProGlyTyProTyrProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 97
|||
QY 291 CTGTCCCGCGCGGCTCTCGCCGCTGCGGCCCAATGACCCCGGCGCAGG 344
|||
Db 98 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115
|||

RESULT 12

US-10-230-381-50
; Sequence 50, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50
; LENGTH: 193
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-50

Alignment Scores:
Pred. No.: 1.65e-26 Length: 193
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-50 (1-193)

QY 231 CAGCCCGGTACCTTGGCCCTATATGGGAATGAGGCTCGGGTGGCGAGGTGGCTC 290
|||
Db 62 GlnProGlyTyProTyrProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeu 81
|||
QY 291 CTGTCCCGCGCGGCTCTCGCCGCTGCGGCCCAATGACCCCGGCGCAGG 344
|||
Db 82 LeuSerProArgGlySerArgProSerTrpGlyProAsnAspProArgArg 99
|||

RESULT 13

US-10-230-381-51
; Sequence 51, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 51
; LENGTH: 193
; TYPE: PRT
; ORGANISM: hepatitis C virus
US-10-230-381-51

```
Alignment Scores:
Pred. No.: 1.65e-26 Length: 193
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-51 (1-193)
QY 231 CAGCCCGGTTACCTTGGCCCTATATGGGAATGAGGCTGGGGTGGCGAGGTGGCTC 290
DB 62 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeu 81
QY 291 CTGTCCCGCGCGGCTCTCGCCGCTGCGGCGCCCAATGACCCCGCGCGAGG 344
DB 82 LeuSerProArgGlySerArgProSerTyrGlyProAsnAspProArgArg 99

RESULT 14
US-10-230-381-52
; Sequence 52, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 52
; TYPE: PRT
; LENGTH: 193
; ORGANISM: hepatitis C virus
US-10-230-381-52

Alignment Scores:
Pred. No.: 1.65e-26 Length: 193
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-52 (1-193)
QY 231 CAGCCCGGTTACCTTGGCCCTATATGGGAATGAGGCTGGGGTGGCGAGGTGGCTC 290
DB 62 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeu 81
QY 291 CTGTCCCGCGCGGCTCTCGCCGCTGCGGCGCCCAATGACCCCGCGCGAGG 344
DB 82 LeuSerProArgGlySerArgProSerTyrGlyProAsnAspProArgArg 99

RESULT 15
US-10-230-381-53
; Sequence 3, Application US/10230381
; Publication No. US20030152591A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: New hepatitis C virus genotype 13, and its use as prophylactic,
; TITLE OF INVENTION: therapeutic and diagnostic agents
; FILE REFERENCE: INNX-124-EP
; CURRENT APPLICATION NUMBER: US/10/230,381
; CURRENT FILING DATE: 2002-08-29
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 209
; TYPE: PRT
; ORGANISM: Hepatitis C virus
```

```
; FEATURE: MISC FEATURE
; NAME/KEY: (18):(18)
; LOCATION: (18):(18)
; OTHER INFORMATION: Xaa is any amino acid
US-10-230-381-3

Alignment Scores:
Pred. No.: 1.63e-26 Length: 209
Score: 38.00 Matches: 38
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 33.04% Indels: 0
DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-230-381-3 (1-209)
QY 231 CAGCCCGGTTACCTTGGCCCTATATGGGAATGAGGCTGGGGTGGCGAGGTGGCTC 290
DB 78 GlnProGlyTyrProTyrProLeuTyrGlyAsnGluGlyCysGlyTyrAlaGlyTyrLeu 97
QY 291 CTGTCCCGCGCGGCTCTCGCCGCTGCGGCGCCCAATGACCCCGCGCGAGG 344
DB 98 LeuSerProArgGlySerArgProSerTyrGlyProAsnAspProArgArg 115
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Job time : 35.5 secs

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OM nucleic - nucleic search, using sw model

Run on: February 27, 2004, 11:12:46 ; Search time 80 Seconds
(without alignments)

2393.226 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

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Minimum DB seq length: 0

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2: /cgn2_6/ptodata/2/ina/5B COMB.seq:*

3: /cgn2_6/ptodata/2/ina/6A COMB.seq:*

4: /cgn2_6/ptodata/2/ina/6B COMB.seq:*

5: /cgn2_6/ptodata/2/ina/PCTUS COMB.seq:*

6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	309	89.6	309	3	US-08-836-075A-49
2	43	12.5	549	3	US-08-441-971-60
3	43	12.5	549	3	US-08-221-653-60
4	43	12.5	549	3	US-08-442-144A-60
5	43	12.5	549	3	US-08-441-970-60
6	43	12.5	573	2	US-08-290-665A-141
7	43	12.5	573	4	US-09-194-949A-5
8	43	12.5	573	5	PCT-US95-10398-141
9	43	12.5	831	3	US-08-836-075A-65
10	40	11.6	573	2	US-08-290-665A-142
11	40	11.6	573	5	PCT-US95-10398-142
12	38	11.0	573	2	US-08-290-665A-136
13	38	11.0	573	5	PCT-US95-10398-136
14	35	10.1	573	2	US-08-290-665A-137
15	35	10.1	573	2	US-08-290-665A-138
16	35	10.1	573	2	US-08-290-665A-139
17	35	10.1	573	5	PCT-US95-10398-137
18	35	10.1	573	5	PCT-US95-10398-138
19	35	10.1	573	5	PCT-US95-10398-139
20	35	10.1	803	1	US-08-157-235-1
21	35	10.1	803	1	US-08-157-235-2
22	35	10.1	803	1	US-08-157-235-3
23	35	10.1	803	1	US-08-157-235-4
24	34	9.9	573	2	US-08-290-665A-135
25	34	9.9	573	5	PCT-US95-10398-135
26	34	9.9	803	1	US-08-157-235-5
27	31	9.0	183	1	US-07-681-703B-21

28	31	9.0	183	2	US-08-407-410B-21	Sequence 21, Appl
29	31	9.0	183	2	US-08-485-500-21	Sequence 21, Appl
30	31	9.0	183	5	PCT-US91-02370-21	Sequence 21, Appl
31	31	9.0	270	1	US-07-681-703B-23	Sequence 23, Appl
32	31	9.0	270	2	US-08-407-410B-23	Sequence 23, Appl
33	31	9.0	270	2	US-08-485-500-23	Sequence 23, Appl
34	31	9.0	270	5	PCT-US91-02370-23	Sequence 23, Appl
35	31	9.0	273	1	US-07-681-703B-19	Sequence 19, Appl
36	31	9.0	273	2	US-08-407-410B-19	Sequence 19, Appl
37	31	9.0	273	2	US-08-485-500-19	Sequence 19, Appl
38	31	9.0	273	5	PCT-US91-02370-19	Sequence 19, Appl
39	31	9.0	306	2	US-08-537-811-35	Sequence 35, Appl
40	31	9.0	327	3	US-08-836-075A-1	Sequence 1, Appl
41	31	9.0	355	3	US-08-444-818-104	Sequence 104, App
42	31	9.0	355	3	US-08-444-818-106	Sequence 106, App
43	31	9.0	360	1	US-07-681-703B-17	Sequence 17, Appl
44	31	9.0	360	2	US-08-407-410B-17	Sequence 17, Appl
45	31	9.0	360	2	US-08-485-500-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1

US-08-836-075A-49
; Sequence 49, Application US/08836075A
; Patent No. 6180768

GENERAL INFORMATION:

APPLICANT: MARTEENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 49:
SEQUENCE CHARACTERISTICS:
LENGTH: 309 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-49


```

RESULT 4
US-08-442-144A-60
; Sequence 60, Application US/08442144A
; Patent No. 6214583
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; APPLICANT: Eileen Beall
; APPLICANT: Bruce Irvine
; APPLICANT: Janice Kolberg
; APPLICANT: Michael S. Urdea
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Chiron Corporation
; STREET: 4560 Horton Street
; CITY: Emeryville
; STATE: California
; COUNTRY: USA
; ZIP: 94608-2916
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 Inch
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows NT
; SOFTWARE: Microsoft Word 97
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/442,144A
; FILING DATE: MAY 16, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/221,653
; FILING DATE: APRIL 1, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Doreen Yatko Trujillo
; REGISTRATION NUMBER: 35,719
; REFERENCE/DOCKET NUMBER: CHIR-0121
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-568-3100
; TELEFAX: 215-568-3439
; TELEX:
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 549 Nucleotides
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: nac5
US-08-442-144A-60

Query Match 12.5%; Score 43; DB 3; Length 549;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels

Qy 211 CCGAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCTTGGCCCT 253
|||||
Db 212 CCGAGGGCAGGTCCTGGGCTCAGCCCGGGTACCCTTGGCCCT 254
|||||

RESULT 5
US-08-441-970-60
; Sequence 60, Application US/08441970
; Patent No. 6297370
; GENERAL INFORMATION:
; APPLICANT: Tai-An Cha
; TITLE OF INVENTION: HCV GENOMIC SEQUENCES FOR
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 147
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue

```

FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
US-08-290-665A-141

Query Match 12.5%; Score 43; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGGCAGGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 7

US-09-194-949A-5
Sequence 5, Application US/09194949A
Patent No. 6653125
GENERAL INFORMATION:
APPLICANT: Merck & Co., Inc.
APPLICANT: Donnelly, John J.
APPLICANT: Fu, Tong-Ming
APPLICANT: Liu, Margaret A.
TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
FILE REFERENCE: 19732YP
CURRENT APPLICATION NUMBER: US/09/194,949A
PRIOR FILING DATE: 2000-02-17
PRIOR APPLICATION NUMBER: PCT/US97/09884
PRIOR FILING DATE: 1997-06-06
PRIOR APPLICATION NUMBER: 60/020,494
PRIOR FILING DATE: 1996-06-11
PRIOR APPLICATION NUMBER: 60/033,534
PRIOR FILING DATE: 1996-12-20
PRIOR APPLICATION NUMBER: 08/865,823
PRIOR FILING DATE: 1997-05-30
NUMBER OF SEQ ID NOS: 25
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 573
TYPE: DNA
ORGANISM: Hepatitis C Virus
US-09-194-949A-5

Query Match 12.5%; Score 43; DB 4; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGGCAGGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 8

PCT-US95-10398-141
Sequence 141, Application PC/TUS9510398
GENERAL INFORMATION:

APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
Prior Application Data:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
Prior Application Data:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792

INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
PCT-US95-10398-141

Query Match 12.5%; Score 43; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGGCAGGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
DB 212 CCGAGGGCAGGTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 9

US-08-836-075A-65
Sequence 65, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GEERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
TITLE OF INVENTION: AGENTS
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON

STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 831 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-65

Query Match 12.5%; Score 43; DB 3; Length 831;
Best Local Similarity 100.0%; Pred. No. 2.1e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCCCT 253
|||||
DB 227 CCGAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCCCT 269

RESULT 10
US-08-290-665A-142
Sequence 142, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 142:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z5
US-08-290-665A-142

Query Match 11.6%; Score 40; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 7e-11; 0; Indels 0; Gaps 0;
Matches 40; Conservative 0; Mismatches 0;

QY 211 CCGAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCC 250
|||||
DB 212 CCGAGGCGAGTCTCGGCTCAGCCCGGTACCCCTTGGCC 251

RESULT 11
PCT-US95-10398-142
Sequence 142, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 142:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs

;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; ORIGINAL SOURCE: 25
;; ORGANISM: homsapieus
;; INDIVIDUAL ISOLATE: Z5
PCT-US95-10398-142

Query Match 11.6%; Score 40; DB 5; Length 573;
Best Local Similarity 100.0%; Pred. No. 7e-11;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGGCAGGCTCGGGCTCAGCCGCGGTACCTGTGCC 250
DB 212 CCGAGGGCAGGCTCGGGCTCAGCCGCGGTACCTGTGCC 251

RESULT 12

US-08-290-665A-136
; Sequence 136, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792

INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homoeapiens
INDIVIDUAL ISOLATE: S52

US-08-290-665A-136

Query Match 11.0%; Score 38; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 7.2e-10;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 261 AATGAGGGCTCGGGTGGCGAGGGTGGCTCCTGTCCCC 298
DB 262 AATGAGGGCTCGGGTGGCGAGGGTGGCTCCTGTCCCC 299

RESULT 13

PCT-US95-10398-136
; Sequence 136, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792

INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homoeapiens
INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 11.0%; Score 38; DB 5; Length 573;

Best Local Similarity 100.0%; Pred. No. 7.2e-10;
Matches 38; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 261 AATGAGGGCTCGGGTGGCGAGGGTGGCTCCTGTCCCC 298
DB 262 AATGAGGGCTCGGGTGGCGAGGGTGGCTCCTGTCCCC 299

RESULT 14

US-08-290-665A-137
; Sequence 137, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.

;; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
;; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
;; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

```

; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 137:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORGANISM: homosapiens
; ORIGINAL SOURCE: S2
; INDIVIDUAL ISOLATE: S2
; US-08-290-665A-137

Query Match 10.1%; Score 35; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.4e-08;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 264 GAGGGCTGCGGTGGCGAGGTGGCTCCTGTCCCC 298
Db 265 GAGGGCTGCGGTGGCGAGGTGGCTCCTGTCCCC 299

Search completed: February 27, 2004, 12:16:42
Job time : 80 secs

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; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 137:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 573 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; ORGANISM: homosapiens
; ORIGINAL SOURCE: S2
; INDIVIDUAL ISOLATE: S2
; US-08-290-665A-137

Query Match 10.1%; Score 35; DB 2; Length 573;
Best Local Similarity 100.0%; Pred. No. 2.4e-08;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 264 GAGGGCTGCGGTGGCGAGGTGGCTCCTGTCCCC 298
Db 265 GAGGGCTGCGGTGGCGAGGTGGCTCCTGTCCCC 299

RESULT 15
US-08-290-665A-138
; Sequence 138, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 27, 2004, 12:10:42 ; Search time 270 Seconds
(without alignments)

4609.541 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacactcttaaac.....aaatgaccccggcaggga 345

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 2353733 seqs, 180373377 residues

Word size : 0

Total number of hits satisfying chosen parameters: 4707466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

Published Applications NA:*

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
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- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	309	89.6	309	9	US-09-851-138-49
2	296	85.8	346	10	US-09-899-046-147
3	296	85.8	346	10	US-09-878-281-147
4	43	12.5	573	10	US-09-194-949-5
5	43	12.5	831	9	US-09-851-138-65
6	31	9.0	152	9	US-09-921-397-39
7	31	9.0	234	9	US-09-921-397-41
8	31	9.0	300	14	US-10-071-867-16
9	31	9.0	310	9	US-09-921-397-114
10	31	9.0	327	9	US-09-851-138-1
11	31	9.0	339	9	US-09-921-397-115
12	31	9.0	480	14	US-10-071-867-15
13	31	9.0	540	15	US-10-150-283-2
14	31	9.0	708	15	US-10-365-620-57
15	31	9.0	750	15	US-10-365-620-53

16	31	9.0	1380	15	US-10-365-620-59	Sequence 59, Appl
17	31	9.0	1422	15	US-10-365-620-55	Sequence 55, Appl
18	31	9.0	2433	9	US-09-973-025-49	Sequence 49, Appl
19	31	9.0	2433	10	US-09-899-303-49	Sequence 49, Appl
20	31	9.0	2433	10	US-09-995-808-49	Sequence 49, Appl
21	31	9.0	2433	10	US-09-995-860-49	Sequence 49, Appl
22	31	9.0	2433	10	US-09-995-791-49	Sequence 49, Appl
23	31	9.0	9365	10	US-09-827-688-7	Sequence 7, Appl
24	31	9.0	9379	9	US-09-916-359-1	Sequence 1, Appl
25	31	9.0	9413	10	US-09-827-688-6	Sequence 6, Appl
26	31	9.0	9416	9	US-09-238-076-19	Sequence 19, Appl
27	31	9.0	9416	9	US-09-929-955-13	Sequence 13, Appl
28	31	9.0	9416	10	US-09-995-937-19	Sequence 19, Appl
29	31	9.0	9416	10	US-09-917-563-19	Sequence 19, Appl
30	31	9.0	9416	13	US-10-104-966-13	Sequence 13, Appl
31	31	9.0	9646	9	US-09-742-659-3	Sequence 3, Appl
32	31	9.0	9646	9	US-09-238-076-1	Sequence 1, Appl
33	31	9.0	9646	10	US-09-995-937-1	Sequence 1, Appl
34	31	9.0	9646	10	US-09-917-563-1	Sequence 1, Appl
35	31	9.0	10803	9	US-09-747-419-17	Sequence 17, Appl
36	31	9.0	10803	14	US-10-259-275-17	Sequence 17, Appl
37	31	9.0	12980	9	US-09-238-076-5	Sequence 5, Appl
38	31	9.0	12980	10	US-09-995-937-5	Sequence 5, Appl
39	31	9.0	12980	10	US-09-917-563-5	Sequence 5, Appl
40	29	8.4	240	14	US-10-396-964-19	Sequence 19, Appl
41	28	8.1	223	9	US-09-851-138-9	Sequence 9, Appl
42	28	8.1	499	10	US-09-899-046-151	Sequence 151, App
43	28	8.1	499	10	US-09-878-281-151	Sequence 151, App
44	28	8.1	509	10	US-09-899-046-41	Sequence 41, Appl
45	28	8.1	509	10	US-09-899-046-43	Sequence 43, Appl

ALIGNMENTS

RESULT 1

US-09-851-138-49
; Sequence 49, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
ADDRESS: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
; COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851.138
FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <UNKNOWN>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 49:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 309 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-851-138-49

Query Match      89.6%; Score 309; DB 9; Length 309;
Best Local Similarity 100.0%; Pred. No. 3e-152;
Matches 309; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGAGCACATCTCTAAACCAACAAAGAAACCAAAAGAAACACCAACCCCGGCACAGG 60
Db 1 ATGAGCACATCTCTAAACCAACAAAGAAACCAAAAGAAACACCAACCCCGGCACAGG 60

Qy 61 ACCTTAAGTTCCTCCAGGCGCGGTGATGCTGTTGGAGTTTACGTGCTACACGACGGG 120
Db 61 ACCTTAAGTTCCTCCAGGCGCGGTGATGCTGTTGGAGTTTACGTGCTACACGACGGG 120

Qy 121 GCCCCCAGTTGGGTGCTGCTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACTCGCAGTA 180
Db 121 GCCCCCAGTTGGGTGCTGCTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACTCGCAGTA 180

Qy 181 GCGCCCAACCCATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGCGCTCAGCCCGGT 240
Db 181 GCGCCCAACCCATCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGCGCTCAGCCCGGT 240

Qy 241 ACCCTTGCCCTATATCGGAATAGGCTGCGGCTGGGAGGGTGGCTCTGTCCTCCCGC 300
Db 241 ACCCTTGCCCTATATCGGAATAGGCTGCGGCTGGGAGGGTGGCTCTGTCCTCCCGC 300

Qy 301 GCGGCTCTC 309
Db 301 GCGGCTCTC 309

RESULT 2
US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
;
Query Match      85.8%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 2e-145;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 50 CCGGCCACAGGACGTTAAGTTCACAGGCGCGGTGATGCTGTTGGTGGAGTTTACGTGCT 109
Db 51 CCGGCCACAGGACGTTAAGTTCACAGGCGCGGTGATGCTGTTGGTGGAGTTTACGTGCT 110

Qy 110 ACCACGACAGGCGCGCCCGAGTTGGGTGCTGCTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 169
Db 111 ACCACGACAGGCGCGCCCGAGTTGGGTGCTGCTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170

Qy 170 ACTCTGAGTAGGCGCCCAACCCATCCAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGC 229
Db 171 ACTCTGAGTAGGCGCCCAACCCATCCAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGC 230

Qy 230 TCAGCCCGGTGACCTTGGCCCTATATGGAATGAGGCTGCGGCTGGGCGAGGTGGCT 289
Db 231 TCAGCCCGGTGACCTTGGCCCTATATGGAATGAGGCTGCGGCTGGGCGAGGTGGCT 290

Qy 290 CTGTGTCCTCCCGCGGCTCTCGCCGCTGCTGGGCGCCAAATGACCCCGGCGAGGA 345
Db 291 CTGTGTCCTCCCGCGGCTCTCGCCGCTGCTGGGCGCCAAATGACCCCGGCGAGGA 346

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; NAME/KEY: mat_peptide
; LOCATION: 1..342
US-09-899-046-147

Query Match      85.8%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 2e-145;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 50 CCGGCCACAGGACGTTAAGTTCACAGGCGCGGTGATGCTGTTGGTGGAGTTTACGTGCT 109
Db 51 CCGGCCACAGGACGTTAAGTTCACAGGCGCGGTGATGCTGTTGGTGGAGTTTACGTGCT 110

Qy 110 ACCACGACAGGCGCGCCCGAGTTGGGTGCTGCTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 169
Db 111 ACCACGACAGGCGCGCCCGAGTTGGGTGCTGCTGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCA 170

Qy 170 ACTCTGAGTAGGCGCCCAACCCATCCAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGC 229
Db 171 ACTCTGAGTAGGCGCCCAACCCATCCAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGC 230

Qy 230 TCAGCCCGGTGACCTTGGCCCTATATGGAATGAGGCTGCGGCTGGGCGAGGTGGCT 289
Db 231 TCAGCCCGGTGACCTTGGCCCTATATGGAATGAGGCTGCGGCTGGGCGAGGTGGCT 290

Qy 290 CTGTGTCCTCCCGCGGCTCTCGCCGCTGCTGGGCGCCAAATGACCCCGGCGAGGA 345
Db 291 CTGTGTCCTCCCGCGGCTCTCGCCGCTGCTGGGCGCCAAATGACCCCGGCGAGGA 346

RESULT 3
US-09-878-281-147
; Sequence 147, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
;
Query Match      85.8%; Score 296; DB 10; Length 346;
Best Local Similarity 100.0%; Pred. No. 2e-145;
Matches 296; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 50 CCGGCCACAGGACGTTAAGTTCACAGGCGCGGTGATGCTGTTGGTGGAGTTTACGTGCT 109
Db 51 CCGGCCACAGGACGTTAAGTTCACAGGCGCGGTGATGCTGTTGGTGGAGTTTACGTGCT 110

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QY 110 ACCACGAGGGGCCCCCAGTTGGTGTGCTGAGTCCGCAAGACTTCCAGCGGTGGCA 169
Db 111 ACCACGAGGGGCCCCCAGTTGGTGTGCTGAGTCCGCAAGACTTCCAGCGGTGGCA 170
QY 170 ACCTCGAGTAGGGCCCAACCCATCCACGAGGCGCGCCGACCGAGGCGAGGTCCCTGGGC 229
Db 171 ACCTCGAGTAGGGCCCAACCCATCCACGAGGCGCGCCGACCGAGGCGAGGTCCCTGGGC 230
QY 230 TCAGCCCGGGTACCTTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGCGAGGGTGGCT 289
Db 231 TCAGCCCGGGTACCTTTGGCCCTTATATGGGAATGAGGGCTGCGGGTGGCGAGGGTGGCT 290
QY 290 CTTGTCCCGCGGGCTCTGCGCGCTGTGGGGCCCAATGACCCCGCGGCGAGGA 345
Db 291 CTTGTCCCGCGGGCTCTGCGCGCTGTGGGGCCCAATGACCCCGCGGCGAGGA 346

RESULT 4

US-09-194-949-5
; Sequence 5, Application US/09194949
; Publication No. US20030053987A1
; GENERAL INFORMATION:
; APPLICANT: Merck & Co., Inc.
; APPLICANT: Donnelly, John J.
; APPLICANT: Fu, Tong-Ming
; APPLICANT: Liu, Margaret A.
; APPLICANT: Shiver, John W.
; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
; FILE REFERENCE: 19732YP
; CURRENT APPLICATION NUMBER: US/09/194,949
; CURRENT FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: PCT/US97/09884
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: 60/020,494
; PRIOR FILING DATE: 1996-06-11
; PRIOR APPLICATION NUMBER: 60/033,534
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 573
; TYPE: DNA
; ORGANISM: Hepatitis C Virus
US-09-194-949-5

Query Match 12.5%; Score 43; DB 10; Length 573;
Best Local Similarity 100.0%; Pred. No. 1.9e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
Db 212 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 254

RESULT 5

US-09-851-138-65
; Sequence 65, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851,138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <Unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004

; INFORMATION FOR SEQ ID NO: 65:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 831 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 65:
US-09-851-138-65

Query Match 12.5%; Score 43; DB 9; Length 831;
Best Local Similarity 100.0%; Pred. No. 1.8e-12;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 211 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 253
Db 227 CCGAGGCGAGTCTCTGGGCTCAGCCGGGTACCCCTTGGCCCT 269

RESULT 6

US-09-921-397-39
; Sequence 39, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS

; TITLE OF INVENTION: S1D nucleic acids and polypeptides selected from a
; pathogenic strain of the hepatitis C virus and
; applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 152
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-39

Query Match 9.0%; Score 31; DB 9; Length 152;
Best Local Similarity 100.0%; Pred. No. 4.2e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCGGCTCAGCCGGGTACCCCTTGGCCCT 253
Db 120 CCGGCTCAGCCGGGTACCCCTTGGCCCT 150

RESULT 7

US-09-921-397-41


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; Sequence 41, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: STD nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 41
; LENGTH: 234
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-41

Query Match          9.0%; Score 31; DB 9; Length 234;
Best Local Similarity 100.0%; Pred. No. 4.1e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253
Db 186 CCTGGGCTCAGCCGGGTACCTTGGCCCT 216

RESULT 8
US-10-071-867-16
; Sequence 16, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: CreGene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
; FILE REFERENCE: CreGene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071,867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: KR 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 16
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-100
US-10-071-867-16

Query Match          9.0%; Score 31; DB 14; Length 300;
Best Local Similarity 100.0%; Pred. No. 4e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253
Db 224 CCTGGGCTCAGCCGGGTACCTTGGCCCT 254

RESULT 9
US-09-921-397-114
; Sequence 114, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02

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```

; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 114
; LENGTH: 310
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-114

Query Match          9.0%; Score 31; DB 9; Length 310;
Best Local Similarity 100.0%; Pred. No. 3.9e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 223 CCTGGGCTCAGCCGGGTACCTTGGCCCT 253
Db 264 CCTGGGCTCAGCCGGGTACCTTGGCCCT 294

RESULT 10
US-09-851-138-1
; Sequence 1, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; APPLICANT: STUYVER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
; AGENTS
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ARNOLD, WHITE & DURKEE
; STREET: P.O. BOX 4433
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6.0 / ASCII text output
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 327 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-851-138-1

Query Match          9.0%; Score 31; DB 9; Length 327;
Best Local Similarity 100.0%; Pred. No. 3.9e-06;
Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 211 CCGAGGGCAGGTCTTGGGCTCAGCCGGGTA 241

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Db 212 CCGAGGGCAGTCTCTGGGCTCAGCCCGGTA 242
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RESULT 11

US-09-921-397-115
; Sequence 115, Application US/09921397
; Patent No. US20020151484A1
; GENERAL INFORMATION:
; APPLICANT: HYBRIGENICS
; TITLE OF INVENTION: SID nucleic acids and polypeptides selected from a
; TITLE OF INVENTION: pathogenic strain of the hepatitis C virus and
; TITLE OF INVENTION: applications thereof
; FILE REFERENCE: B4809A - JAZ
; CURRENT APPLICATION NUMBER: US/09/921,397
; CURRENT FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: EP 00402225.7
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 156
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 115
; LENGTH: 339
; TYPE: DNA
; ORGANISM: Hepatitis C virus
US-09-921-397-115

Query Match 9.0%; Score 31; DB 9; Length 339;

Best Local Similarity 100.0%; Pred. No. 3.9e-06; Indels 0; Gaps 0;
Matches 31; Conservative 0; Mismatches 0;

Qy 223 CCTGGGCTCAGCCCGGTACCTTGGCCCT 253
|||||
Db 224 CCTGGGCTCAGCCCGGTACCTTGGCCCT 254
|||||

RESULT 12

US-10-071-867-15
; Sequence 15, Application US/10071867
; Publication No. US20030166267A1
; GENERAL INFORMATION:
; APPLICANT: CreaGene Inc.
; TITLE OF INVENTION: METHOD FOR IMPROVING GENETIC STABILITY OF FOREIGN INSERT
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCE IN RECOMBINANT SINGLE-STRANDED RNA VIRUS
; FILE REFERENCE: CreaGene-USA-1
; CURRENT APPLICATION NUMBER: US/10/071,867
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: KR 2001-6229
; PRIOR FILING DATE: 2001-02-08
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: KopatentIn 1.71
; SEQ ID NO 15
; LENGTH: 480
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: HCV core-160
US-10-071-867-15

Query Match 9.0%; Score 31; DB 14; Length 480;

Best Local Similarity 100.0%; Pred. No. 3.8e-06; Indels 0; Gaps 0;
Matches 31; Conservative 0; Mismatches 0;

Qy 223 CCTGGGCTCAGCCCGGTACCTTGGCCCT 253
|||||
Db 224 CCTGGGCTCAGCCCGGTACCTTGGCCCT 254
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RESULT 13

US-10-150-283-2
; Sequence 2, Application US/10150283
; Publication No. US20030219407A1
; GENERAL INFORMATION:
; APPLICANT: Ding, Shou-wei

; APPLICANT: Li, Hong-wei
; APPLICANT: Li, Wan-xiang
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: RNA Silencing in Animals as an Antiviral Defense
; FILE REFERENCE: 023070-124100US
; CURRENT APPLICATION NUMBER: US/10/150,283
; CURRENT FILING DATE: 2002-05-15
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 540
; TYPE: RNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; OTHER INFORMATION: F protein
US-10-150-283-2

Query Match 9.0%; Score 31; DB 15; Length 540;

Best Local Similarity 80.6%; Pred. No. 3.8e-06; Indels 0; Gaps 0;
Matches 25; Conservative 6; Mismatches 0;

Qy 223 CCTGGGCTCAGCCCGGTACCTTGGCCCT 253
|||||
Db 224 CCGGGCUCAGCCCGGACCCUUGGCCCU 254
|||||

RESULT 14

US-10-365-620-57
; Sequence 57, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrrell, Lorne
; APPLICANT: No. US20040001853A1ajaim, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 57
; LENGTH: 708
; TYPE: DNA
; ORGANISM: HCV Core
US-10-365-620-57

Query Match 9.0%; Score 31; DB 15; Length 708;

Best Local Similarity 100.0%; Pred. No. 3.7e-06; Indels 0; Gaps 0;
Matches 31; Conservative 0; Mismatches 0;

Qy 223 CCTGGGCTCAGCCCGGTACCTTGGCCCT 253
|||||
Db 314 CCTGGGCTCAGCCCGGTACCTTGGCCCT 344
|||||

RESULT 15

US-10-365-620-53
; Sequence 53, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrrell, Lorne
; APPLICANT: No. US20040001853A1ajaim, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05

; PRIOR APPLICATION NUMBER: 60/390,564
 ; PRIOR FILING DATE: 2002-06-20
 ; NUMBER OF SEQ ID NOS: 76
 ; SOFTWARE: Patentin version 3.2
 ; SEQ ID NO 53
 ; LENGTH: 750
 ; TYPE: DNA
 ; ORGANISM: ORF of HCV Core Protein
 US-10-365-620-53

Query Match 9.0%; Score 31; DB 15; Length 750;
 Best Local Similarity 100.0%; Pred. No. 3.6e-06;
 Matches 31; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 223 CCTGGGCTCAGCCCGGTACCCCTTGCCCT 253
 Db 314 CCTGGGCTCAGCCCGGTACCCCTTGCCCT 344

Search completed: February 27, 2004, 13:17:55
 Job time : 270 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: February 25, 2004, 01:11:16 ; Search time 17.5 Seconds
(without alignments)
2035.538 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 639

Sequence: 1 atgagcacattcttaaac.....aaatgaccccgggcagga 345

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Ygapop 10.0 , Ygapext 0.5
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Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 778828

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents AA.*

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6: /cgn2_6/ptodata/2/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	608	95.1	115	3	US-08-836-075A-50
2	588	92.0	191	2	US-08-290-665A-187
3	588	92.0	191	2	US-08-290-665A-188
4	588	92.0	191	2	US-08-290-665A-190
5	588	92.0	191	5	PCT-US95-10398-187
6	588	92.0	191	5	PCT-US95-10398-188
7	588	92.0	191	5	PCT-US95-10398-189
8	587	91.9	191	2	US-08-290-665A-189
9	587	91.9	191	5	PCT-US95-10398-189
10	574	89.8	191	2	US-08-290-665A-192
11	574	89.8	191	2	US-08-290-665A-193
12	574	89.8	191	2	US-08-290-665A-195

13	574	89.8	191	5	PCT-US95-10398-192	Sequence 132, App
14	574	89.8	191	5	PCT-US95-10398-193	Sequence 133, App
15	574	89.8	191	5	PCT-US95-10398-195	Sequence 135, App
16	571	89.4	319	3	US-08-836-075A-12	Sequence 12, Appl
17	571	89.4	319	4	US-08-635-886C-199	Sequence 139, App
18	571	89.4	319	4	US-08-974-690C-199	Sequence 139, App
19	570	89.2	191	2	US-08-290-665A-196	Sequence 136, App
20	570	89.2	191	5	PCT-US95-10398-196	Sequence 136, App
21	569	89.0	450	4	US-08-635-886C-181	Sequence 181, App
22	569	89.0	450	4	US-08-974-690C-181	Sequence 181, App
23	569	89.0	2894	2	US-08-466-975A-23	Sequence 23, Appl
24	569	89.0	2894	3	US-08-391-671A-23	Sequence 23, Appl
25	569	89.0	2894	3	US-08-467-902A-23	Sequence 23, Appl
26	569	89.0	2894	3	US-09-275-265-23	Sequence 23, Appl
27	569	89.0	2894	4	US-09-941-611-23	Sequence 23, Appl
28	568	88.9	182	4	US-10-104-966-2	Sequence 2, Appl
29	568	88.9	191	2	US-08-290-665A-156	Sequence 156, App
30	568	88.9	191	2	US-08-290-665A-157	Sequence 157, App
31	568	88.9	191	2	US-08-290-665A-158	Sequence 158, App
32	568	88.9	191	2	US-08-290-665A-159	Sequence 159, App
33	568	88.9	191	2	US-08-290-665A-160	Sequence 160, App
34	568	88.9	191	2	US-08-290-665A-191	Sequence 191, App
35	568	88.9	191	2	US-08-290-665A-197	Sequence 197, App
36	568	88.9	191	3	US-08-380-160-3	Sequence 3, Appl
37	568	88.9	191	5	PCT-US95-10398-156	Sequence 156, App
38	568	88.9	191	5	PCT-US95-10398-157	Sequence 157, App
39	568	88.9	191	5	PCT-US95-10398-158	Sequence 158, App
40	568	88.9	191	5	PCT-US95-10398-159	Sequence 159, App
41	568	88.9	191	5	PCT-US95-10398-160	Sequence 160, App
42	568	88.9	191	5	PCT-US95-10398-191	Sequence 191, App
43	568	88.9	191	5	PCT-US95-10398-197	Sequence 197, App
44	568	88.9	319	4	US-08-635-886C-217	Sequence 217, App
45	568	88.9	319	4	US-08-974-690C-217	Sequence 217, App

ALIGNMENTS

RESULT 1

US-08-836-075A-50
; Sequence 50, Application US/08836075A
; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; TITLE OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; FILING DATE: 28 Jun 1995

; ATTORNEY/AGENT INFORMATION:


```

; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6840
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 188:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: S52
; US-08-290-665A-188

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Alignment Scores:
Pred. No.: 3.19e-48 Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 2 Gaps: 0

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US-09-873-224A-147 (1-345) x US-08-290-665A-188 (1-191)

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Qy 1 ATGAGCACATCTCTTAACCAACCAAGAAACCAAAACCAACACCAA-CCCGGCCACAG 59
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Qy 60 GACGTTAAGTTCACGAGCGCGGTGCGAGTCTGTGGAGTTTACGTCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
Qy 120 GGCCCCCAGTTGGGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
Qy 180 AGGCGCCACCATCCCGAGCGCGCGCGCAACCGAGGCGCAGTCTCGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGCTGCGGAGGTGCTCTGTCCCGC 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGGCTCTCCCGTCTGTGGGGCCAAATGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

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RESULT 4

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US-08-290-665A-190
; Sequence 190, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUKH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS

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; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 751-6840
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 190:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: DK12
; US-08-290-665A-190

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Alignment Scores:

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Pred. No.: 3.19e-48 Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 2 Gaps: 0

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US-09-873-224A-147 (1-345) x US-08-290-665A-190 (1-191)

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Qy 1 ATGAGCACATCTCTTAACCAACCAAGAAACCAAAACCAACACCAA-CCCGGCCACAG 59
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Qy 60 GACGTTAAGTTCACGAGCGCGGTGCGAGTCTGTGGAGTTTACGTCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArgArg 40
Qy 120 GGCCCCCAGTTGGGTGCGTGCAGTCCGCAAGACTTCCGAGCGGTCCCAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
Qy 180 AGGCGCCACCATCCCGAGCGCGCGCGCAACCGAGGCGCAGTCTCGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGCTGCGGAGGTGCTCTGTCCCGC 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGGCTCTCCCGTCTGTGGGGCCAAATGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

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RESULT 5

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PCT-US95-10398-187
; Sequence 187, Application PC/TUS9510398
; GENERAL INFORMATION:
; APPLICANT: BURK, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10398
; FILING DATE: 15-AUG-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/086,428
; FILING DATE: 29 JUNE 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/290/665
; FILING DATE: 15 AUGUST 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 187:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-187

Alignment Scores:
Pred. No.: 3,19e-48 Length: 191
Score: 598.00 Matches: 108
Percent Similarity: 96.5% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-187 (1-191)

Qy 1 ATGACACACTTCCTTAACCAAGAAACCAAGAAACACCAA-CCCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArguYrThrLysArgAsnThrIleArgArgProGln 20
Qy 60 GACGTTAAGTTCCTCCAGCGCGGTGACATCGCTGGTGGAGATTACGTGCTACCACGAG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrrValLeuProArgArg 40
Qy 120 GGCCCCCAGTTGGGTGTGCGTCAGTGGCGCAAGACTTCGACGGGTGCGAACTCGCACT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60

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[illegible]

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RESULT 7
PCN-US95-10398-190
; Sequence 190, Application PC/TUS9510398
; GENERAL INFORMATION:
; TITLE OF INVENTION: THE ENVELOPE 1 AND
; APPLICANT: BUKH, J., MILLER, R. H. AND THE ENVELOPE 1 AND
; APPLICANT: PURCELL, R. H. OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES

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; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homsap_iens
; INDIVIDUAL ISOLATE: DK12
PCT-US95-10398-190

Alignment Scores:
Pred. No.: 3.19e-48 Length: 191
Score: 588.00 Matches: 108
Percent Similarity: 96.52% Conservative: 3
Best Local Similarity: 93.91% Mismatches: 4
Query Match: 92.02% Indels: 1
DB: 5 Gaps: 0

US-09-873-224A-147 (1-345) x PCT-US95-10398-190 (1-191)

QY 1 ATGAGCACATCTCTAAACACCAAGAAAAACCAAGAAACACCAA-CCCCGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrIleArgArgProGln 20
QY 60 GACGTTAAGTTCCACAGCGGGGTCCAGATCGTTGGTGGAGTTTACGTGTACACACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyGlyValTyrValLeuProArgArg 40
QY 120 GGCCCCCAAGTTGGGTGGCGTGCAGTCGCAAGACTCCGACGGGTCCGAACCTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGGCGCCCAACCATCCCGAGCGCGCGCCGAAACCGAGCGGAGGTCTCGGCTCAGCCCGGG 239
Db 61 ArgArgGlnProIleProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCCCTTGGCCCTTATATGGGAATAGAGGCTGCGGGGTGGGCGAGGTGGCTCTGTCGCCG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTCGCCGTCGTGGGGCCCAATGACCCCGCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

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RESULT 8
US-08-290-665A-189
Sequence 189, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R. H. AND
ATTORNEY: PURCELL, R. H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESSES:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459


```

; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 192:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z8
US-08-290-665A-192

Alignment Scores:
Pred. No.: 6.88e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-192 (1-191)
QY 1 ATGAGCACACTTCTCTAAACCAAGAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 60 GACGTTAAGTTCCAGCGCGCGGTGATCGTGGTGGAGTTTACGTGCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnLeuValGlyGlyValLysLeuProArg 40
QY 120 GGCCCCCAGTTGGGTGTGCGTCGTCGAGTGCAGCAACTTCCGAGCGGTCCAACTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGGGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 239
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTTATATAGGAATAGAGGCTGCGGGTGGCGAGGCTGCTCTCTCCCGC 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
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Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

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RESULT 11
US-08-290-665A-193
; Sequence 193, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURK, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WORDPERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,665A
; FILING DATE: 15-AUG-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: RICHARD W. BORK
; REGISTRATION NUMBER: 36,459
; REFERENCE/DOCKET NUMBER: 2026-4116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 758-4800
; TELEFAX: (212) 751-6849
; TELEX: 421792
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; ORIGINAL SOURCE:
; ORGANISM: homosapiens
; INDIVIDUAL ISOLATE: Z1
US-08-290-665A-193

Alignment Scores:
Pred. No.: 6.88e-47 Length: 191
Score: 574.00 Matches: 106
Percent Similarity: 95.65% Conservative: 4
Best Local Similarity: 92.17% Mismatches: 5
Query Match: 89.83% Indels: 1
DB: 2 Gaps: 0

US-09-873-224A-147 (1-345) x US-08-290-665A-193 (1-191)
QY 1 ATGAGCACACTTCTCTAAACCAAGAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProMet 20
QY 60 GACGTTAAGTTCCAGCGCGCGGTGATCGTGGTGGAGTTTACGTGCTACCAACGAGG 119
Db 21 AspValLysPheProGlyGlyGlnLeuValGlyGlyValLysLeuProArg 40
QY 120 GGCCCCCAGTTGGGTGTGCGTCGTCGAGTGCAGCAACTTCCGAGCGGTCCAACTCGCAGT 179
Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY 180 AGGGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 239
Db 61 ArgArgGlnProLysProLysAlaArgArgSerGluGlyArgSerTrpAlaGlnProGly 80

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GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: February 25, 2004, 01:24:56 : Search time 33 Seconds

(without alignments)
4415.023 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 639

Sequence: 1 atgagcacacttctaacc.....aaatgaccccgagcagga 345

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Xgapop 10.0 , Xgapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 809742 seqs, 211153259 residues

Total number of hits satisfying chosen parameters: 1619484

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=Published Applications AA -QFMT=fastan -SUFFIX=rapb -MINMATCH=0.1
-LOOPFCU=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blousum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HRAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09873224 @CGN 1.1.53 @runat_24022004_132652_9839
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-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications AA:
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2: /cgn2_6/ptodata/2/pubaa/PCT_NEW_PUB.pep.*
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5: /cgn2_6/ptodata/2/pubaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/2/pubaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/2/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubaa/US08_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description

1	608	95.1	115	9	US-09-851-138-50	Sequence 50, Appl
2	608	95.1	115	10	US-09-899-046-148	Sequence 148, App
3	608	95.1	115	10	US-09-878-281-148	Sequence 148, App
4	575	90.0	235	15	US-10-365-620-58	Sequence 58, Appl
5	575	90.0	249	15	US-10-365-620-54	Sequence 54, Appl
6	575	90.0	459	15	US-10-365-620-60	Sequence 60, Appl
7	575	90.0	473	15	US-10-365-620-56	Sequence 56, Appl
8	571	89.4	130	14	US-10-268-569-19	Sequence 19, Appl
9	571	89.4	319	9	US-09-851-138-12	Sequence 12, Appl
10	569	89.0	2894	9	US-09-941-611-23	Sequence 23, Appl
11	569	89.0	2894	14	US-10-044-995-23	Sequence 23, Appl
12	568	88.9	151	14	US-10-292-129-14	Sequence 14, Appl
13	568	88.9	182	9	US-09-929-955-2	Sequence 2, Appl
14	568	88.9	182	13	US-10-104-966-2	Sequence 2, Appl
15	568	88.9	3011	9	US-09-742-659-4	Sequence 4, Appl
16	568	88.9	3011	9	US-09-952-572-9	Sequence 9, Appl
17	568	88.9	3011	9	US-09-929-955-1	Sequence 1, Appl
18	568	88.9	3011	9	US-09-747-419-20	Sequence 20, Appl
19	568	88.9	3011	10	US-09-891-894-3	Sequence 3, Appl
20	568	88.9	3011	13	US-10-104-966-1	Sequence 1, Appl
21	568	88.9	3011	14	US-10-259-275-20	Sequence 20, Appl
22	568	88.9	3011	14	US-10-184-150-3	Sequence 3, Appl
23	568	88.9	3012	15	US-10-328-997-3	Sequence 3, Appl
24	568	88.9	3012	9	US-09-238-076-2	Sequence 2, Appl
25	568	88.9	3012	10	US-09-995-937-2	Sequence 2, Appl
26	568	88.9	3012	10	US-09-917-563-2	Sequence 2, Appl
27	567	88.7	117	9	US-09-851-138-28	Sequence 28, Appl
28	567	88.7	424	14	US-10-173-480-28	Sequence 28, Appl
29	566	88.6	166	10	US-09-899-046-194	Sequence 194, App
30	566	88.6	166	10	US-09-878-281-194	Sequence 194, App
31	564	88.3	166	10	US-09-899-046-164	Sequence 164, App
32	564	88.3	166	10	US-09-878-281-164	Sequence 164, App
33	564	88.3	3011	9	US-09-238-076-20	Sequence 20, Appl
34	564	88.3	3011	10	US-09-995-937-20	Sequence 20, Appl
35	564	88.3	3011	10	US-09-917-563-20	Sequence 20, Appl
36	562	87.9	319	9	US-09-851-138-44	Sequence 44, Appl
37	561	87.8	2985	14	US-10-259-275-40	Sequence 40, Appl
38	560	87.6	190	14	US-10-268-562-1	Sequence 1, Appl
39	560	87.6	191	10	US-09-194-949-3	Sequence 3, Appl
40	560	87.6	3011	9	US-09-916-359-2	Sequence 2, Appl
41	558	87.3	113	9	US-09-921-397-78	Sequence 78, Appl
42	558	87.3	319	9	US-09-851-138-42	Sequence 42, Appl
43	558	87.3	809	9	US-09-973-025-50	Sequence 50, Appl
44	558	87.3	809	10	US-09-899-303-50	Sequence 50, Appl
45	558	87.3	809	10	US-09-995-808-50	Sequence 50, Appl

ALIGNMENTS

RESULT 1
US-09-851-138-50
; Sequence 50, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

```

; APPLICATION NUMBER: US/09/851,138
; FILING DATE: 09-May-2001
; PRIORITY APPLICATION NUMBER: 08/836,075
; FILING DATE: <Unknown>
; APPLICATION NUMBER: EP 94870166.9
; FILING DATE: 21 Oct 1994
; APPLICATION NUMBER: EP 95870076.7
; FILING DATE: 28 Jun 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: KAMMERER, PATRICIA A.
; REGISTRATION NUMBER: 29,775
; REFERENCE/DOCKET NUMBER: INNS:004
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 50:
US-09-851-138-50

Alignment Scores:
Pred. No.: 4.18e-46 Length: 115
Score: 608.00 Matches: 114
Percent Similarity: 99.13% Conservative: 0
Best Local Similarity: 99.13% Mismatches: 1
Query Match: 95.15% Indels: 1
DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-50 (1-115)
QY 1 ATGAGCACACTTCCTAAACACCAAGAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 60 GACGTTAAGTTCCAGCGCGCGTCAGATCGTTGGAGTTTACGTGTACACGCGAG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArg 40
QY 120 GCGCCCGAGTTGGTGGTGCAGTCCGACAGACTTCGAGCGGTCCGACCTCGCAGT 179
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
QY 180 AGCGCCCAACCCATCCCGCGCGCGCAACCGAGCGAGTCCGCGGTCCGAGCGCGG 239
Db 61 ArgArgGlnProLeuProArgAlaArgThrGluGlyArgSerTrpAlaGlnProGly 80
QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGGTGGCGAGGTGGCTCTCTGTCCTCC 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY 300 CGCGGCTCTGCGCGGTGGGCGCAATGACCCCGCGCAGG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArg 115

RESULT 2
US-09-899-046-148
; Sequence 148, Application US/09899046
; Publication No. US20030082741
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-878-281-148

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; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-899-046-148

Alignment Scores:
Pred. No.: 4.18e-46 Length: 115
Score: 608.00 Matches: 114
Percent Similarity: 99.13% Conservative: 0
Best Local Similarity: 99.13% Mismatches: 1
Query Match: 95.15% Indels: 1
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-899-046-148 (1-115)
QY 1 ATGAGCACACTTCCTAAACACCAAGAAACCAAAACCAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
QY 60 GACGTTAAGTTCCAGCGCGCGTCAGATCGTTGGAGTTTACGTGTACACGCGAG 119
Db 21 AspValLysPheProGlyGlyGlnIleValGlyValTyrValLeuProArg 40
QY 120 GCGCCCGAGTTGGTGGTGCAGTCCGACAGACTTCGAGCGGTCCGACCTCGCAGT 179
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RESULT 3
US-09-878-281-148
; Sequence 148, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 148:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 115 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-878-281-148

```

```

Alignment Scores:
Pred. No.: 4,18e-46 Length: 115
Score: 608.00 Matches: 114
Percent Similarity: 99.13% Conservative: 0
Best Local Similarity: 99.13% Mismatches: 1
Query Match: 95.15% Indels: 1
DB: 10 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-878-281-148 (1-115)

Qy 1 ATGACACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCC-CGGCCACAG 59
Db 1 MetSerThrLeuProLysProGlnArgLysThrLysArgAsnThrAsn***ArgProGln 20
Qy 60 GACGTTAAGTTCCACAGCGCGGTTCAGATCGTTCGTGGAGTTACGCTACACGAGG 119
Db 21 AspVallysPheProGlyGlyGlnValGlyValTyrValLeuProArgArg 40
Qy 120 GGCCCCAGTTGGTGTGGTGCAGTGCAGGCGCAAGACTTCCGAGCGGTCCGACCTCGCAGT 179
Db 41 GlyProGlnLeuGlyValArgAlaValArgLysThrSerGluArgSerGlnProArgSer 60
Qy 180 AGCGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 239
Db 61 ArgArgGlnProLysProArgAlaArgArgThrGluGlyArgSerTrpAlaGlnProGly 80
Qy 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGCGGTCTGCTGCTGCTGCTG 299
Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
Qy 300 CGCGGCTCTCGCCGCTCGTGGCGGCCCAATGACCCCGCGCGCGCGCGCGCGCGCG 344
Db 101 ArgGlySerArgProSerTrpGlyProAsnAspProArgArgArg 115

RESULT 4
US-10-365-620-58
; Sequence 58, Application US/10365620
; Publication No. US20040001853A1
; GENERAL INFORMATION:
; APPLICANT: George, Rajan
; APPLICANT: Tyrell, Lorne
; APPLICANT: No. US20040001853A1ajam, Antoine
; TITLE OF INVENTION: Chimeric Antigens for Eliciting An Immune Response
; FILE REFERENCE: 656.0016
; CURRENT APPLICATION NUMBER: US/10/365,620
; PRIOR FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: US60/423,578
; PRIOR FILING DATE: 2003-11-05
; PRIOR APPLICATION NUMBER: 60/390,564
; PRIOR FILING DATE: 2002-06-20
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 58
; LENGTH: 235
; TYPE: PRT
; ORGANISM: HCV Core
US-10-365-620-58

Alignment Scores:
Pred. No.: 3,9e-43 Length: 235
Score: 575.00 Matches: 105
Percent Similarity: 94.78% Conservative: 4
Best Local Similarity: 91.30% Mismatches: 6
Query Match: 89.98% Indels: 1
DB: 15 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-365-620-58 (1-235)

Qy 1 ATGACACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgArgProGln 50
Qy 60 GACGTTAAGTTCCACAGCGCGGTTCAGATCGTTCGTGGAGTTACGCTACACGAGG 119
Db 51 AspVallysPheProGlyGlyGlnValGlyValTyrValLeuProArgArg 70
Qy 120 GGCCCCAGTTGGTGTGGTGCAGTGCAGGCGCAAGACTTCCGAGCGGTCCGACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
Qy 180 AGCGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 239
Db 91 ArgArgGlnProLysProLysAlaArgArgProGluGlyArgThrTrpAlaGlnProGly 110
Qy 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGCGGTCTGCTGCTGCTGCTG 299
Db 111 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130

US-09-873-224A-147 (1-345) x US-10-365-620-54 (1-249)

Qy 1 ATGACACACTTCCTAAACCAAGAAACCAAAAGAAACCAACCC-CGGCCACAG 59
Db 31 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgArgProGln 50
Qy 60 GACGTTAAGTTCCACAGCGCGGTTCAGATCGTTCGTGGAGTTACGCTACACGAGG 119
Db 51 AspVallysPheProGlyGlyGlnValGlyValTyrValLeuProArgArg 70
Qy 120 GGCCCCAGTTGGTGTGGTGCAGTGCAGGCGCAAGACTTCCGAGCGGTCCGACCTCGCAGT 179
Db 71 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 90
Qy 180 AGCGCCCAACCCATCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 239
Db 91 ArgArgGlnProLysProLysAlaArgArgProGluGlyArgThrTrpAlaGlnProGly 110
Qy 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGTGGCGAGGCGGTCTGCTGCTGCTGCTG 299
Db 111 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 130

```


DB: 14 Gaps: 0

US-09-873-224A-147 (1-345) x US-10-268-569-19 (1-130)

QY 1 ATGAGCACACCTTCTTAAACCAACAAAGAAACCAAAAGAAACCAACCC-CGGCCACAG 59
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
 QY 60 GACGTTAAGTTCCAGCGCGGCTCAGATCGTTGGTGAGTTACGTGCTACCGCAGG 119
 Db 21 AspValLysPheProGlyGlyGlnLeValGlyGlyValLysLeuProArgArg 40
 QY 120 GCGCCCAAGTTGGTGCTGCTGCGCAAGACTTCCGCGCTCCGCAACCTCGCAGT 179
 Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
 QY 180 AGGCGCCCAACCATCCAGCGCGCGCGCAACCGAGCGGCGAGTCTCGGGCTCAGCCCGG 239
 Db 61 ArgArgGlnProLysProLysAlaArgProGluGlyArgSerTrpAlaGlnProGly 80
 QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGGTGGCGAGGTGCTCTGTCCCG 299
 Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuSerPro 100
 QY 300 CGCGCTCTCGCCCTGCTGGGGCGCAAAATGACCCCGCGCGCAGG 344
 Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115

RESULT 9

US-09-851-138-12

Sequence 12, Application US/09851138

Publication No. US20020183508A1

GENERAL INFORMATION:

APPLICANT: MAERTENS, GERT

STUYVER, LIEVEN

TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC AGENTS

NUMBER OF SEQUENCES: 207

CORRESPONDENCE ADDRESS:

ADDRESSEE: ARNOLD, WHITE & DURKEE

STREET: P.O. BOX 4433

CITY: HOUSTON

STATE: TEXAS

COUNTRY: USA

ZIP: 77210-4433

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Microsoft Word 6.0 / ASCII text output

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/851,138

FILING DATE: 09-May-2001

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/836,075

FILING DATE: <Unknown>

APPLICATION NUMBER: EP 94870166.9

FILING DATE: 21 Oct 1994

APPLICATION NUMBER: EP 95870076.7

FILING DATE: 28 Jun 1995

ATTORNEY/AGENT INFORMATION:

NAME: KAMMERER, PATRICIA A.

REGISTRATION NUMBER: 29,775

REFERENCE/DOCKET NUMBER: INNS:004

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 319 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 12:

US-09-851-138-12

Alignment Scores:

Pred. No.: 9.06e-43 Length: 319

Score: 571.00 Matches: 106

Percent Similarity: 94.78% Conservative: 3

Best Local Similarity: 92.17% Mismatches: 6

Query Match: 89.36% Indels: 1

DB: 9 Gaps: 0

US-09-873-224A-147 (1-345) x US-09-851-138-12 (1-319)

QY 1 ATGAGCACACCTTCTTAAACCAACAAAGAAACCAAAAGAAACCAACCC-CGGCCACAG 59
 Db 1 MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln 20
 QY 60 GACGTTAAGTTCCAGCGCGGCTCAGATCGTTGGTGAGTTACGTGCTACCGCAGG 119
 Db 21 AspValLysPheProGlyGlyGlnLeValGlyGlyValLysLeuProArgArg 40
 QY 120 GCGCCCAAGTTGGTGCTGCTGCGCAAGACTTCCGCGCTCCGCAACCTCGCAGT 179
 Db 41 GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
 QY 180 AGGCGCCCAACCATCCAGCGCGCGCGCAACCGAGCGGCGAGTCTCGGGCTCAGCCCGG 239
 Db 61 ArgArgGlnProLysProLysAlaArgProGluGlyArgSerTrpAlaGlnProGly 80
 QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGGTGGCGAGGTGCTCTGTCCCG 299
 Db 81 TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuSerPro 100
 QY 300 CGCGCTCTCGCCCTGCTGGGGCGCAAAATGACCCCGCGCGCAGG 344
 Db 101 ArgGlySerArgProSerTrpGlyProThrAspProArgArg 115

RESULT 10

US-09-941-611-23

Sequence 23, Application US/09941611

Patent No. US20020106640A1

GENERAL INFORMATION:

APPLICANT: DELEYS, ROBERT J

POLLET, DIRK

MAERTENS, GERT

VAN HEUVERSWUN, HUGO

TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF ANTIBODIES TO HEPATITIS C VIRUS

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

ADDRESSEE: NIXON & VANDERHVE P.C.

STREET: 1100 NORTH GLEBE ROAD

CITY: ARLINGTON

STATE: VA

COUNTRY: USA

ZIP: 22201

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/941,611

FILING DATE: 30-Aug-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/391,671

FILING DATE: 1995-02-21

APPLICATION NUMBER: WO PCT/EP91/02409

FILING DATE: 13-DEC-1991

APPLICATION NUMBER: EP 90124241.2

FILING DATE: 14-DEC-1990

ATTORNEY/AGENT INFORMATION:

NAME: SADOFF, B.J.

REGISTRATION NUMBER: 36,663


```

; APPLICANT: Chung, Raymond Taeyong
; TITLE OF INVENTION: SCREENING ASSAY FOR HEPATITIS C VIRUS
; TITLE OF INVENTION: ANTIVIRAL AGENTS
; FILE REFERENCE: 00786-539001
; CURRENT APPLICATION NUMBER: US/10/292,129
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: US 60/345,405
; PRIOR FILING DATE: 2001-11-09
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 151
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-10-292-129-14

```

Alignment Scores:		
Pred. No.:	1.6e-42	Length:
Score:	568.00	Matches:
Percent Similarity:	94.79%	Conservative:
Best Local Similarity:	91.30%	Mismatches:
Query Match:	88.89%	Indels:
DB:	14	Gaps:
		151
		105

US-09-873-224A-147 (1-345) x US-10-292-129-14 (1-151)

QY	1	ATGAGCAGACCTTCCTAAACCAAGAAAACCAAAAGAACACCAACCC - CGGCCACAG 59
Db	1	MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgArgProGln 20
QY	60	GACGTTAAAGTTCACAGCGGGCGGTCCAGATCGTTGGTGGAGTTTACGTGTACCACGCAGG 119
Db	21	AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg 40
QY	120	GGCCCCCAGTTGGGTGTCGGTGCAGTGGCGCAAGACTTCCGAGCGGTGCACCTCCAGT 179
Db	41	GlyProArgLeuGlyValIargAlaThrArgLysThrSerGluArgSerGlnProArgGly 60
QY	180	AGCGCGCAACCCATCCCGAGCGCGCGCGAACCAGAGCGCAGGTCTCTGGCTCAGCCCGGG 239
Db	61	ArgArgGlnProIleProLysAlaArgArgProGluGlyArgThrTrpAlaGlnProGly 80
QY	240	TACCTTGGCCCCCTATATGGGNATCAGGGCTCGGGTGGCGAGGTGGCTCTGTCCCCG 299
Db	81	TyrProTrpProLeuTyrGlyAsnGluGlyCysGlyTrpAlaGlyTrpLeuLeuSerPro 100
QY	300	CGCGGCTCTCGCCGCTCGTGGGGGCCAAATGACCCCGCGCGAGG 344
Db	101	AspGlySerArgProSerTioGlyProThrAspProArgArgArg 115

RESULT 13

```

US-09-929-955-2
; Sequence 2, Application US/09929955
; Patent No. US20020136740A1
; GENERAL INFORMATION:
; APPLICANT: Matti Sallberg
; APPLICANT: Catharina Hultgren
; TITLE OF INVENTION: VACCINES CONTAINING RIBAVIRIN AND
; METHOD OF INVENTION: METHODS OF USE THEREOF
; FILE REFERENCE: TRIPEL.23AUS2
; CURRENT APPLICATION NUMBER: US/09/929,955
; CURRENT FILING DATE: 2001-08-15
; PRIOR APPLICATION NUMBER: 09/705,547
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: 60/229,175
; PRIOR FILING DATE: 2000-08-29
; PRIOR APPLICATION NUMBER: 60/225,767
; PRIOR FILING DATE: 2000-08-17
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 182
; TYPE: PRT

```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hepatitis C virus core protein sequence
US-09-929-955-2

```

Alignment Scores:	
Pred. No.:	1,628-42
Score:	568.00
Percent Similarity:	94.78%
Best Local Similarity:	91.30%
Query Match:	88.89%
DB:	9
Length:	182
Matches:	105
Conservative:	6
Mismatches:	6
Indels:	1
Gaps:	0

US-09-873-224A-147 (1-345) X US-09-929-955-2 (1-182)

QY	1	ATGAGCACACTTCTTAACCAACAAGAAACCAACCAACCCCGGCCACAG	59
Db	1	MetSerThrAsnProLysProGlnArgLysThrLysArgAsnThrAsnArgProGln	20
QY	60	GAGCTTAAGTTCCACGACGGCGGTCCAGATCCTGGTGAGTTTACGTCTACCAACGACAG	119
Db	21	AspValLysPheProGlyGlyGlyGlnIleValGlyGlyValTyrLeuLeuProArgArg	40
QY	120	GGCCCCCAGTTGGTGCGTGACGTGGCGCAAGACTTCCGACGGTCCCAACTCGCAGT	179
Db	41	GlyProArgLeuGlyValArgAlaThrArgLysThrSerGluArgSerGlnProArgGly	60
QY	180	AGGCGCCAAACCCATCCCGACGGCGCGCGAACCAGGAGCAGGTCTCTGGGCTCAGCCCGGG	239
Db	61	ArgArgGlnProIleProLysAlaArgProGluGlyArgThrTyrAlaGlnProGly	80
QY	240	TACCTTGGCCCCCTATATGGAAATGAGGCTCGGGTGGGACAGGTGGCTCTGTCCCGG	299
Db	81	TyrProTyrProLeuTyrGlyAsnGluLysCysGlyTyrAlaGlyTyrLeuLeuSerPro	100
QY	300	CGCGGCTCTCGCCCGTGTGGGGCCCCAAATACCCCCGGCGCAGG	344
Db	101	ArgGlySerArgProSerTyrTyrProThrAspProArgArgArg	115

RESULT 14

```

US-10-104-966-2
; Sequence 2, Application US/10104966
; Publication No. US20020155124A1
; GENERAL INFORMATION:
; APPLICANT: Catharina Hultgren
; APPLICANT: Matti Sallberg
; TITLE OF INVENTION: VACCINES CONTAINING RIBAVIRIN AND
; TITLE OF INVENTION: METHODS OF USE THEREOF
; FILE REFERENCE: TRIPEP.23AUSCI
; CURRENT APPLICATION NUMBER: US/10/104,966
; PRIOR FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: 09/705,547
; PRIOR FILING DATE: 2000-11-03
; PRIOR APPLICATION NUMBER: 60/229,175
; PRIOR FILING DATE: 2000-08-29
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 182

```

```

;
; ORGANISM: Artificial Sequence
;
; FEATURE:
;
; OTHER INFORMATION: Hepatitis C virus core protein sequence
US-10-104-966-2

```

Alignment Scores:		
Pred. No.:	1.62e-42	Length:
Score:	568.00	Matches:
Percent Similarity:	94.78%	Conservative:
Best Local Similarity:	91.30%	Mismatches:
Query Match:	88.89%	Indels:
DB:	13	Gaps:
		182
		105
		4
		6
		1
		0

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 27, 2004, 10:59:35 ; Search time 80 Seconds

(without alignments)
2393.226 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacattcttaaac.....aaatgaccccgccgcagga 345

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA.*

- 1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*
- 2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/2/ina/PTUS_COMB.seq.*
- 6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	309	89.6	309	3	US-08-836-075A-49
2	261.6	75.8	652	3	US-08-836-075A-59
3	259.4	75.2	573	2	US-08-290-665A-136
4	259.4	75.2	573	4	US-09-194-949A-5
5	259.4	75.2	573	5	PCT-US95-10398-136
6	257.8	74.7	573	2	US-08-290-665A-141
7	257.8	74.7	573	5	PCT-US95-10398-141
8	257.8	74.7	803	1	US-08-157-235-4
9	257.8	74.7	803	1	US-08-157-235-5
10	256.2	74.3	573	2	US-08-290-665A-135
11	256.2	74.3	573	2	US-08-290-665A-137
12	256.2	74.3	573	2	US-08-290-665A-138
13	256.2	74.3	573	5	PCT-US95-10398-135
14	256.2	74.3	573	5	PCT-US95-10398-137
15	256.2	74.3	573	5	PCT-US95-10398-138
16	256.2	74.3	1037	1	US-08-462-195-1
17	256.2	74.3	1037	1	US-08-636-883-1
18	256.2	74.3	1037	3	US-09-127-829-1
19	254.6	73.8	573	2	US-08-290-665A-107
20	254.6	73.8	573	2	US-08-290-665A-114
21	254.6	73.8	573	2	US-08-290-665A-119
22	254.6	73.8	573	5	PCT-US95-10398-107
23	254.6	73.8	573	5	PCT-US95-10398-114
24	254.6	73.8	573	5	PCT-US95-10398-119
25	254.6	73.8	803	1	US-08-157-235-2
26	253.6	73.5	573	2	US-08-290-665A-139
27	253.6	73.5	573	5	PCT-US95-10398-139

28	253.6	73.5	803	1	US-08-157-235-6
29	253	73.3	573	2	US-08-290-665A-113
30	253	73.3	573	5	PCT-US95-10398-113
31	253	73.3	803	1	US-08-157-235-1
32	253	73.3	1539	2	US-08-470-426B-17
33	253	73.3	1863	2	US-08-470-426B-14
34	253	73.3	2433	3	US-08-612-973-49
35	253	73.3	2433	3	US-08-927-597-49
36	251.4	72.9	345	1	US-08-324-977-7
37	251.4	72.9	345	2	US-08-384-616-7
38	251.4	72.9	345	2	US-08-904-686A-7
39	251.4	72.9	345	3	US-09-315-850-7
40	251.4	72.9	573	2	US-08-290-665A-108
41	251.4	72.9	573	5	PCT-US95-10398-108
42	251.4	72.9	803	1	US-08-157-235-3
43	251.4	72.9	1167	1	US-08-324-977-9
44	251.4	72.9	1167	2	US-08-384-616-9
45	251.4	72.9	1167	2	US-08-904-686A-9

ALIGNMENTS

RESULT 1

US-08-836-075A-49

; Sequence 49, Application US/08836075A

; Patent No. 6180768

; GENERAL INFORMATION:

; APPLICANT: MAERTENS, GEERT

; APPLICANT: STUYVER, LIEVEN

; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES

; TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC

; NUMBER OF INVENTION: AGENTS

; NUMBER OF SEQUENCES: 207

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: ARNOLD, WHITE & DURKEE

; STREET: P.O. BOX 4433

; CITY: HOUSTON

; STATE: TEXAS

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Microsoft Word 6.0 / ASCII text output

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/836,075A

; FILING DATE: 21 Apr 1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/EP95/04155

; FILING DATE: 23 Oct 1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 94870166.9

; FILING DATE: 21 Oct 1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: EP 95870076.7

; ATTORNEY/AGENT INFORMATION:

; NAME: KAMMERER, PATRICIA A.

; REGISTRATION NUMBER: 29,775

; REFERENCE/DOCKET NUMBER: INNS:004

; INFORMATION FOR SEQ ID NO: 49:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 309 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

US-08-836-075A-49

ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S52
PCT-US95-10398-136

Query Match 75.2%; Score 259.4; DB 5; Length 573;
Best Local Similarity 86.4%; Pred. No. 2.3e-64;
Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTCTAAACACCAAGAAAAAACAAGAAAAACCAACACCGCCACAG 59
Db 1 ATGAGCACACTTCTCTAAACCTCAAGAAAAAACAAGAAAAACCAACATCGTCGCCACAG 60

QY 60 GAGTTAAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACACGAGG 119
Db 61 GAGTTAAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTGCGGCGAGG 120

QY 120 GGCCCCCAGTTGGGTGCGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCAACCTCGCAGT 179
Db 121 GGCCCCCAGTTGGGTGCGAGTGCAGTGCAGCAAGACTTCTGTAACGCTCAGCCTCGCGGA 180

QY 180 AGCGGCAACCCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTCTGCGCCGCGG 239
Db 181 CGAGCAGACCTATCCCAAGCGCGTCCGAGCGAAGCGCGTCTCTGCGCTCAGCCCGG 240

QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCGTCCGCGTGGCGAGGCTGCTCTGTCGCCG 299
Db 241 TACCTTGGCCCCCTATATGGTAATGAGGCTGCGGTGGCGAGGCTGCTCTGTCGCCA 300

QY 300 CGCGGCTCTCGCCGCTGTTGGGGCCCAATGACCCCGCGCGAGG 344
Db 301 CGCGGCTCTCGCTCATCTTGGGGCCCAACGACCCCGCGCGAGG 345

RESULT 6
US-08-290-665A-141
Sequence 141, Application US/08290665A
Patent No. 5882852
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290, 665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 141:
SEQUENCE CHARACTERISTICS:

LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: Z1
US-08-290-665A-141

Query Match 74.7%; Score 257.8; DB 2; Length 573;
Best Local Similarity 86.1%; Pred. No. 6.5e-64;
Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1

QY 1 ATGAGCACACTTCTCTAAACACCAAGAAAAAACAAGAAAAACCAACACCGCCACAG 59
Db 1 ATGAGCACAAATCTTAACCTCAAGAAAAAACAAGAAAAACCAACACCGTCGCCCATG 60

QY 60 GAGTTAAAGTTCCAGCGCGGTGAGATCGTTGGTGGAGTTTACGTGCTACACGAGG 119
Db 61 GATGTGAAATTTCCCGGCGCGCCAGATCGTTGGCGGAGTTTACTTGTGCGCGCAGG 120

QY 120 GGCCCCCAGTTGGGTGCGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCAACCTCGCAGT 179
Db 121 GGCCCCCAGTTGGGTGCGAGTGCAGTGCAGCAAGACTTCCGAGCGGTGCAACCTCGTGGC 180

QY 180 AGCGGCAACCCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTCTGCGGCTCAGCCCGG 239
Db 181 AGCGGTGAGCTATCCCAAGCGCGTCCGAGCGGCGAGTCTCTGCGGCTCAGCCCGG 240

QY 240 TACCTTGGCCCCCTATATGGGAATGAGGCGTCCGCGTGGCGAGGCTGCTCTGTCGCCG 299
Db 241 TACCTTGGCCCCCTTACGGCAATGAGGCGTGTGGTGGGCGAGGTTGGCTCTGTCGCC 300

QY 300 CGCGGCTCTCGCCGCTGTTGGGGCCCAATGACCCCGCGCGAGG 344
Db 301 CGCGGTTCCAGCGCGTCTTGGGGCCCAATGATCCCGCGCTAGG 345

RESULT 7
PCT-US95-10398-141
Sequence 141, Application PC/TUS9510398
GENERAL INFORMATION:
APPLICANT: BUKH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:

NAME: RICHARD W. BORK
 REGISTRATION NUMBER: 36,459
 REFERENCE/DOCKET NUMBER: 2026-4116
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 758-4800
 TELEFAX: (212) 751-6849
 TELEX: 421792
 INFORMATION FOR SEQ ID NO: 141:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 573 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 ORGANISM: homopapiens
 INDIVIDUAL ISOLATE: Z1
 PCT-US95-10398-141

Query Match 74.7%; Score 257.8; DB 5; Length 573;
 Best Local Similarity 86.1%; Pred. No. 6.5e-64;
 Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;
 Qy 1 ATGAGCACATCTCTAAACCAAAAGAAACCAAAAGAAACCAACACCCCGGCCACA-G 59
 Db 1 ATGAGCAAAATCTTAAACCTCAAGGAAACCAAAACCAACCAACCGCTCGCCCATG 60
 Qy 60 GACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 119
 Db 61 GATGTGAATTCGCGCGCGCGCCAGATCGTTGGCGGAGTTTACTGTCCGCGGAGG 120
 Qy 120 GGCCTCCAGTTGGGTGTGTCAGTGCAGTGCAGAGACTTCCGAGCGGTCCCAACCTCGCAGT 179
 Db 121 GGCCTCCAGTTGGGTGTGTCAGTGCAGTGCAGAGACTTCCGAGCGGTCCCAACCTCGTGC 180
 Qy 180 AGGCGCCAAACCATCCACAGCGCGCGCCAGACCGAGGCGAGTCTCGGGCTCAGCCCGG 239
 Db 181 AGGCGTACGCTATCCCAAGCGCGCGCGTCCGAGGCGAGTCTCGGGCTCAGCCCGG 240
 Qy 240 TACCTTCGCGCTTATATGGGAATCAGAGGCTGCGGTCGCGAGGCTGCTCTGTCCCG 299
 Db 241 TACCTTCGCGCTTATATGGGAATCAGAGGCTGCGGTCGCGAGGCTGCTCTGTCCCG 300
 Qy 300 CGCGGCTCTCGCGCTCTGTCGCGCGCCAAATGACCCCGCGCGAGG 344
 Db 301 CGCGGCTCTCGCGCTCTGTCGCGCGCCCAATGATCCCGCGGTAGG 345

RESULT 8
 US-08-157-235-4
 ; Sequence 4, Application US/08157235
 ; Patent No. 5550016
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND
 ; TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES,
 ; TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES
 ; NUMBER OF SEQUENCES: 20
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Beveridge, DeGrandi, Weillacher & Young
 ; STREET: 1850 M Street N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY:
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA: US/08/157,235
 ; FILING DATE: 24-NOV-1993
 ; CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: JP 354370/92
 ; FILING DATE: 27-NOV-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Robert G. Weillacher
 ; REGISTRATION NUMBER: 20,531
 ; REFERENCE/DOCKET NUMBER: 06/87-49206
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-659-2811
 ; TELEFAX: 202-659-1462
 ; TELEX: 64470

INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 803 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-157-235-4

Query Match 74.7%; Score 257.8; DB 1; Length 803;
 Best Local Similarity 86.1%; Pred. No. 7.2e-64;
 Matches 297; Conservative 0; Mismatches 47; Indels 1; Gaps 1;
 Qy 1 ATGAGCACATCTCTAAACCAAAAGAAACCAAAAGAAACCAACACCCCGGCCACA-G 59
 Db 298 ATGAGCACATCTCTAAACCTCAAGGAAACCAAAACCAACCAACCGCTCGCCCATG 357
 Qy 60 GACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 119
 Db 358 GACGTCAAGTTCGCGCGCGCGCCAGATCGTTGGTGGAGTTTACGTCTACCAACGAGG 417
 Qy 120 GGCCTCCAGTTGGGTGTGTCAGTGCAGTGCAGAGACTTCCGAGCGGTCCCAACCTCGCAGT 179
 Db 418 GGCCTCCAGTTGGGTGTGTCAGTGCAGTGCAGAGACTTCCGAGCGGTCCCAACCTCGCAG 477
 Qy 180 AGGCGCCAAACCATCCACAGCGCGCGCCAGACCGAGGCGAGTCTCGGGCTCAGCCCGG 239
 Db 478 CGAGCGACAGCTATCCCAAGCGCGCGTCCGAGGCGAGGCTCTCGGGCTCAGCCCGG 537
 Qy 240 TACCTTCGCGCTTATATGGGAATCAGAGGCTGCGGTCGCGAGGCTGCTCTGTCCCG 299
 Db 538 TACCTTCGCGCTTATATGGGAATCAGAGGCTGCGGTCGCGAGGCTGCTCTGTCCCG 597
 Qy 300 CGCGGCTCTCGCGCTCTGTCGCGCGCCAAATGACCCCGCGCGAGG 344
 Db 598 CGCGGCTCTCGCGCTCTGTCGCGCGCCAAATGACCCCGCGCGAGG 642

RESULT 9
 US-08-157-235-5
 ; Sequence 5, Application US/08157235
 ; Patent No. 5550016
 ; GENERAL INFORMATION:
 ; APPLICANT: OKAMOTO, Hiroaki
 ; TITLE OF INVENTION: OLIGONUCLEOTIDES OF HCV, PRIMERS AND
 ; TITLE OF INVENTION: PROBES THEREFROM, METHOD OF DETERMINING HCV GENOTYPES,
 ; TITLE OF INVENTION: AND METHOD OF DETECTING HCV IN SAMPLES
 ; NUMBER OF SEQUENCES: 20
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Beveridge, DeGrandi, Weillacher & Young
 ; STREET: 1850 M Street N.W., Suite 800
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY:
 ; ZIP: 20036
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA: US/08/157,235
 ; FILING DATE: 24-NOV-1993

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? CLASSIFICATION: 435
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: JP 354370/92
? FILING DATE: 27-NOV-1992
? ATTORNEY/AGENT INFORMATION:
? NAME: Robert G. Wellacher
? REGISTRATION NUMBER: 20,531
? REFERENCE/DOCKET NUMBER: 06/87-49206
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 202-659-2811
? TELEFAX: 202-659-1462
? TELEX: 64470
? INFORMATION FOR SEQ ID NO: 5:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 803 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? US-08-157-235-5

Query Match 74.7%; Score 257.8; DB 1; Length 803;
Best Local Similarity 86.1%; Pred. No. 7.2e-64; Indels 1; Gaps 1;
Matches 297; Conservative 0; Mismatches 47;

QY 1 ATGAGCACACTTCCTAAACCAACAAGAAAAACCAAAAGAAACACCAACC-CCGGCCACAG 59
DB 298 ATGAGCACACTTCCTAAACCTCAAAGAAAAACCAAAAGAAACACCATCCGTGGCCACAG 357
QY 60 GACGTTAAGTTCACAGCGCGGTCAGATCGTTGGTGGAGTTTACGTCTACCAAGCAGG 119
DB 358 GACGTTCAAGTTCCCGGGTGGCGGACAGATCGTTGGTGGAGTATACGTGTTCCGGCGCAGG 417
QY 120 GGCCCCCAGTTGGGTGTCGCTGTCAGTGGCGCAAGACTTCCGAGCGGTCCGCAACTCGCAGT 179
DB 418 GGCCCCAGATTGGGTGTGGCGCGACGGGTAAACTTCTGAACGCTCACAGCTCGCGGA 477
QY 180 AGGCGCCAACCCATCCCCAGAGGCGCGCCGAACCGGAGGGCAGGTCTCTGGGCTCAGCCCGGG 239
DB 478 CGAGCACAGCCTATCCCAAGCGCGTCCGAGCGAAGCCCGTCTCTGGGCTCAGCCCGGG 537
QY 240 TACCTTTGGCCCTTATATGGGAATCAGAGGCTCGGGTGGCGAGGCTGGCTCTGTCTGCCCG 299
DB 538 TACCTTTGGCCCTCTTATGGTAACGAGGCTCGGGTGGGCGAGATGGCTTCTGTCTCCCG 597
QY 300 CGCGGCTCTCGCCCGTCTGGGGCCCAATGACCCCGCGCAGG 344
DB 598 CGCGGCTCCCGTCCATCATGGGGCCCAATGACCCCGCGCGAGG 642

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RESULT 10
US-08-290-665A-135
; Sequence 135, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BUXH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/290,665A
FILING DATE: 15-AUG-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 135:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: hom sapiens
INDIVIDUAL ISOLATE: HK10
US-08-290-665A-135

Query Match	74.3%;	Score	256.2;	DB 2;	Length	573;			
Best Local Similarity	85.8%;	Pred. No.	1.8e-63;						
Matches	296;	Conservative	0;	Mismatches	48;	Indels	1;	Gaps	1;
QY	1	ATGAGCACATCTTCTTAACCAACAAGAAGAAACCAAAAGAACCAACACC-CGGGCCACAG	59						
DB	1	ATGAGCACATCTTCTTAACCAACAAGAAGAAACCAAAAGAAACCAACCTCCGTCGCCACAG	60						
QY	60	GACGTTAAGTTCCCAAGCGCGGTTCAGATCGTTGGTGGAGTTTACGTCTACCAACGCGAGG	119						
DB	61	GACGTTAAGTTCCCGGTTGGCGACAGATCGTTGGTGGAGTATACGTGTTCCGCGCGAGG	120						
QY	120	GGCCCCAGTTGGGTGTGCGTGCAGTGGCGAAGACTTCCGAGCGGTTCGCAACTTCGCAGT	179						
DB	121	GGCCCCAGTATGGGTGTGCGCGCGACGCGTAAACTTCTGAACGGTTCGAGCCTCGCGGA	180						
QY	180	AGGCGCCAACCCATCCCCAGGCGCGCGGAACCCGAGGGCAGGTCTCTGGCTCAGCCCGGG	239						
DB	181	CGACGACAGCCTATCCCCAAGCGCGCTCGGAGCGAAGCCCGGTCTCTGGCTCAGCCCGGG	240						
QY	240	TACCTTTGGCCCTTATATGGGAATGAGGGCTCGCGGTGGCGAGGGTGGCTCTGTTCCCGG	299						
DB	241	TACCTTTGGCCCTTATATGTTAAACGAGGGCTCGGGTGGGACGATGCTCTGTGCCCA	300						
QY	300	CGCGCTCTCGCCCCGTGTGGGGCCCCAAATGACCCCCGGCGCAGG	344						
DB	301	CGGAGCTCCCGTTCATCTTTGGGGCCCCAAACGACCCCCGGCGACGG	345						

RESULT.11
US-08-290-665A-137
; Sequence 137, Application US/08290665A
; Patent No. 5882852
; GENERAL INFORMATION:
; APPLICANT: BURH, J., MILLER, R.H. AND
; APPLICANT: PURCELL, R.H.
; TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
; TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
; TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
; TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
; TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
; NUMBER OF SEQUENCES: 263
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORGAN & FINNEGAN
; STREET: 345 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10154


```

CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 135:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: HK10
PCT-US95-10398-135

Query Match 74.3%; Score 256.2; DB 5; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.8e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCAAGAAAGAAACCAAAAGAAACCAACAC-CCGGCCACAG 59
Db 1 ATGAGCACACTTCTTAACCAAGAAAGAAACCAAAAGAAACCAACAC-CCGGCCACAG 60

QY 60 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACCGCAGG 119
Db 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACCGCAGG 120

QY 120 GCGCCCAAGTTGGGTGTGCGTGCAGTGCAGACACTTCCGAGCGGTTCGCTCGCAGT 179
Db 121 GCGCCCAAGTTGGGTGTGCGTGCAGTGCAGACACTTCTGAACGCTCACAGCTCGCGGA 180

QY 180 AGCGGCCAACCCATCCCGAGCGCGCGAACCAGAGGCGAGGTCTGTGGCTCAGCCCGG 239
Db 181 CGCGGACAGCCTATATCCCAAGCGCGTCCGAGCGAAGCGCGTCTGTGGCTCAGCCCGG 240

QY 240 TACCCCTTGGCCCTATATGGAATGAGGCTCGGAGCGGTGGCTCTGTCCCGG 299
Db 241 TACCCCTTGGCCCTATATGGAATGAGGCTCGGAGCGGTGGCTCTGTCCCGG 300

QY 300 CGCGGCTCTCGCCGCTGTGGGCGCCAAATGACCCCGCGCAGG 344
Db 301 CGCGGCTCTCGCCGCTGTGGGCGCCAAACGACCCCGCGCAGG 345

RESULT 14
PCT-US95-10398-137
; Sequence 137, Application PC/TUS9510398

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GENERAL INFORMATION:
APPLICANT: BUEH, J., MILLER, R.H. AND
APPLICANT: PURCELL, R.H.
TITLE OF INVENTION: NUCLEOTIDE AND DEDUCED
TITLE OF INVENTION: AMINO ACID SEQUENCES OF THE ENVELOPE 1 AND
TITLE OF INVENTION: CORE GENES OF ISOLATES OF HEPATITIS C VIRUS
TITLE OF INVENTION: AND THE USE OF REAGENTS DERIVED FROM THESE
TITLE OF INVENTION: SEQUENCES IN DIAGNOSTIC METHODS AND VACCINES
NUMBER OF SEQUENCES: 263
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN
STREET: 345 PARK AVENUE
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WORDPERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/10398
FILING DATE: 15-AUG-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/086,428
FILING DATE: 29 JUNE 1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/290/665
FILING DATE: 15 AUGUST 1994
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD W. BORK
REGISTRATION NUMBER: 36,459
REFERENCE/DOCKET NUMBER: 2026-4116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEFAX: (212) 751-6849
TELEX: 421792
INFORMATION FOR SEQ ID NO: 137:
SEQUENCE CHARACTERISTICS:
LENGTH: 573 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
ORIGINAL SOURCE:
ORGANISM: homosapiens
INDIVIDUAL ISOLATE: S2
PCT-US95-10398-137

Query Match 74.3%; Score 256.2; DB 5; Length 573;
Best Local Similarity 85.8%; Pred. No. 1.8e-63;
Matches 296; Conservative 0; Mismatches 48; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCAAGAAAGAAACCAAAAGAAACCAACAC-CCGGCCACAG 59
Db 1 ATGAGCACACTTCTTAACCAAGAAAGAAACCAAAAGAAACCAACAC-CCGGCCACAG 60

QY 60 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACCGCAGG 119
Db 61 GACGTTAAGTTCCCGAGCGCGGTCCAGATCGTTGGTGGAGTTTACGTCTACCGCAGG 120

QY 120 GCGCCCAAGTTGGGTGTGCGTGCAGTGCAGACACTTCCGAGCGGTTCGCTCGCAGT 179
Db 121 GCGCCCAAGTTGGGTGTGCGTGCAGTGCAGACACTTCTGAACGCTCACAGCTCGCGGA 180

QY 180 AGCGGCCAACCCATCCCGAGCGCGCGAACCAGAGGCGAGGTCTGTGGCTCAGCCCGG 239
Db 181 CGCGGACAGCCTATATCCCAAGCGCGTCCGAGCGAAGCGCGTCTGTGGCTCAGCCCGG 240

QY 240 TACCCCTTGGCCCTATATGGAATGAGGCTCGGAGCGGTGGCTCTGTCCCGG 299
Db 241 TACCCCTTGGCCCTATATGGAATGAGGCTCGGAGCGGTGGCTCTGTCCCGG 300

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OM nucleic - nucleic search, using sw model

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(without alignments)
4768.491 Million cell updates/sec

Title: US-09-873-224A-147

Perfect score: 345

Sequence: 1 atgagcacattcttaaac.....aaatgaccccgccgagga 345

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2353733 seqs, 1803733377 residues

Total number of hits satisfying chosen parameters: 4707466

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

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Database : Published Applications NA:*

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- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
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- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	334	96.8	346	10	US-09-899-046-147
2	334	96.8	346	10	US-09-878-281-147
3	309	89.6	309	9	US-09-851-138-49
4	261.6	75.8	652	9	US-09-851-138-59
5	260.2	75.4	499	10	US-09-899-046-165
6	260.2	75.4	499	10	US-09-878-281-165
7	259.4	75.2	499	10	US-09-194-949-5
8	254.6	73.8	499	10	US-09-899-046-163
9	253.6	73.5	498	10	US-09-878-281-163
10	253.6	73.5	498	10	US-09-899-046-193
11	253.6	73.5	498	10	US-09-878-281-193
12	253	73.3	2433	9	US-09-973-025-49
13	253	73.3	2433	10	US-09-899-303-49
14	253	73.3	2433	10	US-09-995-808-49
15	253	73.3	2433	10	US-09-995-808-49

16	253	73.3	2433	10	US-09-995-791-49	Sequence 49, Appl
17	249.8	72.4	9413	10	US-09-827-688-6	Sequence 6, Appl
18	248.8	72.1	957	9	US-09-851-138-11	Sequence 11, Appl
19	248.2	71.9	480	14	US-10-071-867-15	Sequence 15, Appl
20	248.2	71.9	9275	14	US-10-259-275-39	Sequence 39, Appl
21	246.6	71.5	685	10	US-09-853-409-37	Sequence 37, Appl
22	246.6	71.5	685	12	US-10-457-304-37	Sequence 37, Appl
23	246.6	71.5	708	15	US-10-365-620-57	Sequence 57, Appl
24	246.6	71.5	750	15	US-10-365-620-53	Sequence 53, Appl
25	246.6	71.5	1380	15	US-10-365-620-59	Sequence 59, Appl
26	246.6	71.5	1422	15	US-10-365-620-55	Sequence 55, Appl
27	246.6	71.5	9365	10	US-09-827-688-7	Sequence 7, Appl
28	246.6	71.5	9416	9	US-09-929-955-13	Sequence 13, Appl
29	246.6	71.5	9416	13	US-10-104-966-13	Sequence 13, Appl
30	246.6	71.5	9646	9	US-09-742-659-3	Sequence 3, Appl
31	246.6	71.5	9646	9	US-09-838-076-1	Sequence 1, Appl
32	246.6	71.5	9646	10	US-09-995-937-1	Sequence 1, Appl
33	246.6	71.5	9646	10	US-09-917-563-1	Sequence 1, Appl
34	246.6	71.5	10803	9	US-09-747-419-17	Sequence 17, Appl
35	246.6	71.5	10803	14	US-10-259-275-17	Sequence 17, Appl
36	246.6	71.5	12980	9	US-09-238-076-5	Sequence 5, Appl
37	246.6	71.5	12980	10	US-09-995-937-5	Sequence 5, Appl
38	246.6	71.5	12980	10	US-09-917-563-5	Sequence 5, Appl
39	245	71.0	540	15	US-10-150-283-2	Sequence 2, Appl
40	245	71.0	9379	9	US-09-916-359-1	Sequence 1, Appl
41	245	71.0	9416	9	US-09-238-076-19	Sequence 19, Appl
42	245	71.0	9416	10	US-09-995-937-19	Sequence 19, Appl
43	245	71.0	9416	10	US-09-917-563-19	Sequence 19, Appl
44	243.4	70.6	630	9	US-09-973-322-1	Sequence 1, Appl
45	243.4	70.6	630	10	US-09-968-255-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-899-046-147
; Sequence 147, Application US/09899046
; Publication No. US20030008274A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,046
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 147:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 346 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..346
; NAME/KEY: mat peptide
; LOCATION: 1..342
US-09-899-046-147

Query Match

96.8%; Score 334; DB 10; Length 346;

QY 120 GGGCCCCAGTTGGGTGTGCTGAGTGGCGAAGACTTTCGAGCGGTGCGAACCCTGCGAGT 179
 Db 121 GGGCCCCAGTTGGGTGTGCGCGGAGCTCGAAGAGACTTCGAGCGGTGCGAACCCTGCTGGG 180
 QY 180 AGGCGCCACCCATCCCGAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCTCAGCCCGGG 239
 Db 181 AGGCGCCACCTATCTCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCGAGCCCGGG 240
 QY 240 TACCTTGGCCCTTATATGGAATGAGGCTGCGGTGGGCGAGGCTCTCTGTCCTCCG 299
 Db 241 TATCCTTGGCCCTTATGGAATGAGGCTGCGGTGGGCGAGGCTCTCTGTCCTCCG 300
 QY 300 CGGCGCTCTCGCCCTGCTGGGCGCCCAATGATGATCCCGCGGAG 343
 Db 301 CGGCGTCTCGGCGCTTGGGCGCCCAATGATGATCCCGCGGAG 344

RESULT 6

US-09-878-281-165
 ; Sequence 165, Application US/09878281
 ; Publication No. US20030032005A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/878,281
 ; FILING DATE:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 08/362,455
 ; FILING DATE:
 ; INFORMATION FOR SEQ ID NO: 165:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 499 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: DNA (genomic)
 ; HYPOTHEICAL: NO
 ; ANTI-SENSE: NO
 ; US-09-878-281-165

Query Match 75.4%; Score 260.2; DB 10; Length 499;
 Best Local Similarity 86.3%; Pred. No. 6.2e-69;
 Matches 297; Conservative 0; Mismatches 46; Indels 1; Gaps 1;
 QY 1 ATGAGCACACTTCTTAACCAACAAAGAAACCAAAAGAAACCAACCAACCGCCGCA-G 59
 Db 1 ATGAGCAGGAATCCTTAACCTCAAGAAACCAAAACGTAACCAACCGCCGCTATG 60
 QY 60 GAGTTAAGTTCCAGCGCGGTGAGTCTGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
 Db 61 GAGTTAAGTTCCAGCGCGGTGAGTCTGTTGGTGGAGTTTACTTGTGCGCGCAGG 120
 QY 120 GGGCCCCAGTTGGGTGTGCTGAGTGGCGAAGACTTCCGAGCGGTGCGAACCCTCGAGT 179
 Db 121 GGGCCCCAGTTGGGTGTGCTGAGTGGCGAAGACTTCCGAGCGGTGCGAACCCTCGAGT 180
 QY 180 AGGCGCCACCCATCTCCCAAGGCGCGCCGAAACCGAGGCGAGGCTCTGGGCTCAGCCCGGG 239
 Db 181 AGGCGCCACCTATCTCCCAAGGCGCGCCGAAACCGAGGCGAGTCTCTGGGCGAGCCCGGG 240
 QY 240 TACCTTGGCCCTTATATGGAATGAGGCTGCGGTGGGCGAGGCTCTCTGTCCTCCG 299
 Db 241 TATCCTTGGCCCTTATGGAATGAGGCTGCGGTGGGCGAGGCTCTCTGTCCTCCG 300

QY 300 CGGCGTCTCGCCCTGCTGGGCGCCCAATGATGATCCCGCGGAG 343
 Db 301 CGGCGTCTCGGCGCTCTGGGCGCCCAATGATGATCCCGCGGAG 344

RESULT 7

US-09-194-949-5
 ; Sequence 5, Application US/09194949
 ; Publication No. US20030053987A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Merck & Co., Inc.
 ; APPLICANT: Donnelly, John J.
 ; APPLICANT: Fu, Tong-Ming
 ; APPLICANT: Liu, Margaret A.
 ; APPLICANT: Shiver, John W.
 ; TITLE OF INVENTION: SYNTHETIC HEPATITIS C GENES
 ; FILE REFERENCE: 19732YP
 ; CURRENT APPLICATION NUMBER: US/09/194,949
 ; CURRENT FILING DATE: 2000-02-17
 ; PRIOR APPLICATION NUMBER: PCT/US97/09884
 ; PRIOR FILING DATE: 1997-06-06
 ; PRIOR APPLICATION NUMBER: 60/020,494
 ; PRIOR FILING DATE: 1996-06-11
 ; PRIOR APPLICATION NUMBER: 60/033,534
 ; PRIOR FILING DATE: 1996-12-20
 ; NUMBER OF SEQ ID NOS: 25
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 5
 ; TYPE: DNA
 ; LENGTH: 573
 ; ORGANISM: Hepatitis C Virus
 ; US-09-194-949-5

Query Match 75.2%; Score 259.4; DB 10; Length 573;
 Best Local Similarity 86.4%; Pred. No. 1.1e-68;
 Matches 298; Conservative 0; Mismatches 46; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAACCAACCAAGAAACCAAAAGAAACCAACCAACCGCCGCAAG 59
 Db 1 ATGAGCAGGAATCCTTAACCTCAAGAAACCAAAACGTAACCAACCGCCGCTATG 60
 QY 60 GAGTTAAGTTCCAGCGCGGTGAGTCTGTTGGTGGAGTTTACGTGCTACCAACGAGG 119
 Db 61 GAGTTAAGTTCCAGCGCGGTGAGTCTGTTGGTGGAGTTTACTTGTGCGCGCAGG 120
 QY 120 GGGCCCCAGTTGGGTGTGCTGAGTGGCGAAGACTTCCGAGCGGTGCGAACCCTCGAGT 179
 Db 121 GGGCCCCAGTTGGGTGTGCTGAGTGGCGAAGACTTCCGAGCGGTGCGAACCCTCGAGT 180
 QY 180 AGGCGCCACCCATCTCCCAAGGCGCGCCGAAACCGAGGCGAGGCTCTGGGCTCAGCCCGGG 239
 Db 181 AGGCGACAGCTTATCCCAAGGCTGCGCGCCGAGGCGAGGCTCTGGGCTCAGCCCGGG 240
 QY 240 TACCTTGGCCCTTATATGGAATGAGGCTGCGGTGGGCGAGGCTCTCTGTCCTCCG 299
 Db 241 TACCTTGGCCCTTATGGAATGAGGCTTCCGAGCGGTGCGGTGGGCGAGGCTCTCTGTCCTCC 300
 QY 300 CGGCGTCTCGCCCTGCTGGGCGCCCAATGATGATCCCGCGGAGG 344
 Db 301 CGGCGTCTCGGCGCTTGGTGGGCGCCCACTGATGATCCCGCGGAGG 345

RESULT 8

US-09-899-046-163
 ; Sequence 163, Application US/09899046
 ; Publication No. US2003008274A1
 ; GENERAL INFORMATION:
 ; APPLICANT:
 ; TITLE OF INVENTION: New sequences of hepatitis C virus
 ; TITLE OF INVENTION: genotypes for diagnosis, prophylaxis and therapy.
 ; NUMBER OF SEQUENCES: 270
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk


```

; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..495
US-09-899-046-193

Query Match
Best Local Similarity 73.5%; Score 253.6; DB 10; Length 498;
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTCTAAACCAACAAAGAAACCAACCAACCCCGCCACA-G 59
Db 1 ATGAGCACGAATCTCTAAACCTCAAGAAAAACCAACGTAACACCAACCGCCCTATG 60

QY 60 GAGCTTAAGTTCCAGCGCGCGTCAAGATCGTTGGTGGAGTTTACGTGTACACGCAGG 119
Db 61 GAGCTAAGTTCCCGCGCGGTGACAGATCGTTGGCGAGTTTACTTTGTGCGCGCAGG 120

QY 120 GCGCCCGAGTTGGGTGTGCGTGCAGTGCAGACTTCCGAGCGGTGCGCAACTCGCAGT 179
Db 121 GCGCCCGGTGGGTGTGCGCGACTTCGAGCGGTGCGCAACTCGTGTGC 180

QY 180 AGCGCCCAACCCATCCCGAGGCGCGCAACCGAGGCGAGTCTTGCGGTCAAGCCCGG 239
Db 181 AGCGGTCAACCTATCCCAAGGCGCGGTCCGAGGCGAGTCTTGCGCGCAAGCCCGG 240

QY 240 TACCTTGGCCCTATATGGAATAGAGGTGCGGTGGCGAGGTGCTTCTGTCCCG 299
Db 241 TACCTTGGCCCTCTATGCAATAGAGGTGCGGTGGCGAGGTGCTTCTGTCTCT 300

QY 300 CGCGGTCTCGCCGCTGCGGCGCCCAATGACCCCGCGCGAG 343
Db 301 CGCGGTCTCGGCACTTGGGCGCCCAATGATCCCGCGCGAG 344

RESULT 11
US-09-878-281-193
; Sequence 193, Application US/09878281
; Publication No. US20030032005A1
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: New sequences of hepatitis C virus
; NUMBER OF SEQUENCES: 270
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/878,281
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/362,455
; FILING DATE:
; INFORMATION FOR SEQ ID NO: 193:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 498 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..498

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; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..495
US-09-878-281-193

Query Match
Best Local Similarity 73.5%; Score 253.6; DB 10; Length 498;
Matches 294; Conservative 0; Mismatches 49; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTCTAAACCAACAAAGAAACCAACCAACCCCGCCACA-G 59
Db 1 ATGAGCACGAATCTCTAAACCTCAAGAAAAACCAACGTAACACCAACCGCCCTATG 60

QY 60 GAGCTTAAGTTCCAGCGCGCGTCAAGATCGTTGGTGGAGTTTACGTGTACACGCAGG 119
Db 61 GAGCTAAGTTCCCGCGCGGTGACAGATCGTTGGCGAGTTTACTTTGTGCGCGCAGG 120

QY 120 GCGCCCGAGTTGGGTGTGCGTGCAGTGCAGACTTCCGAGCGGTGCGCAACTCGCAGT 179
Db 121 GCGCCCGGTGGGTGTGCGCGACTTCGAGCGGTGCGCAACTCGTGTGC 180

QY 180 AGCGCCCAACCCATCCCGAGGCGCGCAACCGAGGCGAGTCTTGCGGTCAAGCCCGG 239
Db 181 AGCGGTCAACCTATCCCAAGGCGCGGTCCGAGGCGAGTCTTGCGCGCAAGCCCGG 240

QY 240 TACCTTGGCCCTATATGGAATAGAGGTGCGGTGGCGAGGTGCTTCTGTCCCG 299
Db 241 TACCTTGGCCCTCTATGCAATAGAGGTGCGGTGGCGAGGTGCTTCTGTCTCT 300

QY 300 CGCGGTCTCGCCGCTGCGGCGCCCAATGACCCCGCGCGAG 343
Db 301 CGCGGTCTCGGCACTTGGGCGCCCAATGATCCCGCGCGAG 344

RESULT 12
US-09-973-025-49
; Sequence 49, Application US/09973025
; Publication No. US20020182706A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; BOSMAN, FONS
; DE MARTYNOFF, GUY
; BUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESS: NIXON & VANDERHUYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PC-DOS/MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/973,025
; FILING DATE: 10-Oct-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/612,973
; FILING DATE: 11-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 49:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 2433 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; NAME/KEY: mat peptide
; LOCATION: 1..2427
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-973-025-49

Query Match      73.3%; Score 253; DB 9; Length 2433;
Best Local Similarity 85.2%; Pred. No. 1.2e-66;
Matches 294; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACCCCAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAG 59
DB 1 ATGAGCACGAATCTTAAACCTCAAGAAACCAACCAACCAACCCCGGCCACAG 60

QY 60 GACGTTAAGTTCCAGAGCGCGGTGATCGTGTGGAGTTTACGTCTACCAACGACAG 119
DB 61 GACGTCAGTTCCCGGGGGTGGTCAGATCGTGTGGAGTTTACGTCTGCGGGGAGG 120

QY 120 GGCCTCCAGTTGGGTGGTGCAGTGCAGAGCTTCCGAGCGGTGCAACCTCGCAGT 179
DB 121 GGCCTCCAGTTGGGTGGTGCAGTGCAGAGCTTCCGAGCGGTGCAACCTCGCAGT 180

QY 180 AGGCGCCAAACCCAGCGCGGTGATCGTGTGGAGTTTACGTCTACCAACGACAG 239
DB 181 AGGCGCAACCTATCCCAAGGCTGCGGAGCCGAGAGGATAGGCGGTGCGGCTCAG 240

QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGAGGATAGGCGGTGCGGCTCAG 299
DB 241 TACCTTGGCCCTATATGGAATGAGGCTGCGGAGGATAGGCGGTGCGGCTCAG 300

QY 300 CGCGGCTCTCGGCTAGTTGGGGCCCTACAGACCCCGCGGTAGG 344
DB 301 CGCGGCTCTCGGCTAGTTGGGGCCCTACAGACCCCGCGGTAGG 345

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RESULT 13
US-09-899-303-49
; Sequence 49, Application US/09899303
; Publication No. US2003036110A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; BOSMAN, FONS
; DE MARTINOFF, GUY
; BOUYSE, MARIE-ANGE
; TITLE OF INVENTION: PURIFIED HEPATITIS C VIRUS ENVELOPE
; PROTEINS FOR DIAGNOSTIC AND THERAPEUTIC USE
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NIXON & VANDERHYE P.C.
; STREET: 1100 NORTH GLEBE ROAD
; CITY: ARLINGTON
; STATE: VIRGINIA
; COUNTRY: U.S.A.
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/899,303
; FILING DATE: 06-Jul-2001

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; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/612,973
; FILING DATE: 11-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: BYRNE, THOMAS E.
; REGISTRATION NUMBER: 32,205
; REFERENCE/DOCKET NUMBER: 1487-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 49:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2433 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; NAME/KEY: mat peptide
; LOCATION: 1..2427
; SEQUENCE DESCRIPTION: SEQ ID NO: 49:
US-09-899-303-49

Query Match      73.3%; Score 253; DB 10; Length 2433;
Best Local Similarity 85.2%; Pred. No. 1.2e-66;
Matches 294; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCCTAAACCCCAAGAAACCAAAAGAAACCAACCAACCCCGGCCACAG 59
DB 1 ATGAGCACGAATCTTAAACCTCAAGAAACCAACCAACCAACCCCGGCCACAG 60

QY 60 GACGTTAAGTTCCAGAGCGCGGTGATCGTGTGGAGTTTACGTCTACCAACGACAG 119
DB 61 GACGTCAGTTCCCGGGGGTGGTCAGATCGTGTGGAGTTTACGTCTGCGGGGAGG 120

QY 120 GGCCTCCAGTTGGGTGGTGCAGTGCAGAGCTTCCGAGCGGTGCAACCTCGCAGT 179
DB 121 GGCCTCCAGTTGGGTGGTGCAGTGCAGAGCTTCCGAGCGGTGCAACCTCGCAGT 180

QY 180 AGGCGCCAAACCCAGCGCGGTGATCGTGTGGAGTTTACGTCTACCAACGACAG 239
DB 181 AGGCGCAACCTATCCCAAGGCTGCGGAGCCGAGAGGATAGGCGGTGCGGCTCAG 240

QY 240 TACCTTGGCCCTATATGGAATGAGGCTGCGGAGGATAGGCGGTGCGGCTCAG 299
DB 241 TACCTTGGCCCTATATGGAATGAGGCTGCGGAGGATAGGCGGTGCGGCTCAG 300

QY 300 CGCGGCTCTCGGCTAGTTGGGGCCCTACAGACCCCGCGGTAGG 344
DB 301 CGCGGCTCTCGGCTAGTTGGGGCCCTACAGACCCCGCGGTAGG 345

RESULT 14
US-09-995-808-49
; Sequence 49, Application US/09995808
; Publication No. US20030095980A1
; GENERAL INFORMATION:
; APPLICANT: Immunogenetics N.V.
; TITLE OF INVENTION: Purified hepatitis C virus envelope proteins for diagnostic and
; therapeutic use.
; FILE REFERENCE: 2551-70
; CURRENT APPLICATION NUMBER: US/09/995,808
; CURRENT FILING DATE: 2001-11-29
; NUMBER OF SEQ ID NOS: 122
; SOFTWARE: PatentIn 3.1
; SEQ ID NO 49
; LENGTH: 2433

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; TYPE: DNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..2427
; US-09-995-860-49

Query Match
Best Local Similarity 73.3%; Score 253; DB 10; Length 2433;
Matches 294; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAAACACACAAAGAAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 59
Db 1 ATGAGCACGAATCTTAAACCTCAAGAAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 60
QY 60 GACGTTAAAGTTCCAGCGCGCGGTGATGCTGTTGGTGGAGTTTACGTGCTACCAAGCAGG 119
Db 61 GAGTCAAGTTCCCGGCGGTGTCAGATCGTTGGTGGAGTTTACGTGTCGCGCAGG 120
QY 120 GCGCCCGAGTTGGTGTGCGTGCAGTGCAGCAAGACTTCCGAGCGGTGCGCAACCTCGCACT 179
Db 121 GCGCCCGAGTTGGTGTGCGCGCACTAGCAAGACTTCCGAGCGGTGCGCAACCTCGTGGG 180
QY 180 AGCGCGCAACCCATCCCAAGGCGCGCGCAACCGAGGGGAGGTCTCTGGGCTCAGCCCGGG 239
Db 181 AGCGGACACCTATCCCAAGGCTCGCGACCCGAGGGTAGGGCTTGGGCTCAGCCCGGG 240
QY 240 TACCCCTTGGCCCTATATGGGAATGAGGCTGCGGCTGGGCGAGGTGGTCTCTGTCCCGG 299
Db 241 TACCCCTTGGCCCTCTATGGCAATGAGGCGATGGGCTGGGCGAGGTGGTCTCTGTACCC 300
QY 300 CGCGGCTCTGCGCCCTGCTGGGCGCCCAATGACCCCGGCGCAGG 344
Db 301 CGCGGCTCTGCGGCTAGTTGGGCGCCTACAGACCCCGGCGTAGG 345

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Search completed: February 27, 2004, 12:15:10
Job time : 263 secs

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RESULT 15
US-09-995-860-49
; Sequence 49, Application US/09995860
; Publication No. US20030118603A1
; GENERAL INFORMATION:
; APPLICANT: Innogenetics N.V.
; TITLE OF INVENTION: Purified hepatitis C virus envelope proteins for diagnostic and
; TITLE OF INVENTION: therapeutic use.
; FILE REFERENCE: 2551-69
; CURRENT APPLICATION NUMBER: US/09/995,860
; CURRENT FILING DATE: 2001-11-29
; NUMBER OF SEQ ID NOS: 122
; SOFTWARE: PatentIn 3.1
; SEQ ID NO 49
; LENGTH: 2433
; TYPE: DNA
; ORGANISM: Hepatitis C virus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..2430
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 1..2427
; US-09-995-860-49

Query Match
Best Local Similarity 73.3%; Score 253; DB 10; Length 2433;
Matches 294; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

QY 1 ATGAGCACACTTCTTAAACACACAAAGAAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 59
Db 1 ATGAGCACGAATCTTAAACCTCAAGAAAACCAAAAGAAACCAACCAACC-CCGGCCACAG 60
QY 60 GACGTTAAAGTTCCAGCGCGGTGATGCTGTTGGTGGAGTTTACGTGCTACCAAGCAGG 119

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